

Radomír Kužel; Ivana Prosserová; Pavla Musilová

Tables of $G(u_s, u_B)$ function for calculation of surface conductivity of semiconductors

Acta Universitatis Carolinae. Mathematica et Physica, Vol. 16 (1975), No. 2, 3--46

Persistent URL: <http://dml.cz/dmlcz/142366>

Terms of use:

© Univerzita Karlova v Praze, 1975

Institute of Mathematics of the Academy of Sciences of the Czech Republic provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This paper has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* <http://project.dml.cz>

Tables of G (u_s , u_B) Function for Calculation of Surface Conductivity of Semiconductors

R. KUŽEL

Departement of Semiconductor Physics, Charles University, Prague

I. PROSSEROVÁ and P. MUSILOVÁ

Popov Research Institute of Radiocommunications, Prague

Received 27 December 1973

In the previous paper [1] some functions were calculated for the determination of the surface space-charge and its capacitance in semiconductors.

Further there was another problem to calculate the third quantity, i.e. the change in concentration of electron and holes at the surface as a function of surface potential. The necessary integrals were computed in this paper. They can be used even for semiconductors with wide band gaps. The values of the surface potential u_s and of u_B are ranging from -40 to $+40$.

1. Excesses of Electrons and Holes in Semiconductor Space-Charge Region

When a space charge exists at the surface of a semiconductor, there are bending the energy bands there. The energy band diagram of a semiconductor surface is shown in the first paper [1]. This fact causes a change in concentration of electrons and holes compared to the bulk of the semiconductor. We mark the total excesses of those as Γ_n and Γ_p , respectivaly. They are equal to

$$\Gamma_n = \int_0^\infty [n(x) - n_0] dx \quad (1)$$

and

$$\Gamma_p = \int_0^\infty [p(x) - p_0] dx, \quad (2)$$

where n_0 and p_0 are the concentrations of electrons in the bulk, $n(x)$ and $p(x)$ are their concentrations in the space-charge region.

If we consider the expressions (7)–(11) (in the paper [1]) and that

$$dx = \frac{L_D}{F(u, u_B)} du \quad (3)$$

or

$$dx = \left(\frac{dy}{dx} \right)^{-1} dy = \frac{L_D}{F(y, \gamma)} dy, \quad (4)$$

we can write

$$\Gamma_n = L_D \int_Y^0 \frac{n_0 e^y - n_0}{F(y, \gamma)} dy = n_i L_D \gamma^{-1} \int_Y^0 \frac{e^y - 1}{F(y, \gamma)} dy \quad (5)$$

and

$$\Gamma_p = L_D \int_Y^0 \frac{p_0 e^y - p_0}{F(y, \gamma)} dy = n_i L_D \gamma^{-1} \int_Y^0 \frac{e^y - 1}{F(y, \gamma)} dy \quad (6)$$

or

$$\Gamma_n = n_i L_D \int_{u_s}^{u_B} \frac{e^u - e^{u_B}}{F(u, u_B)} du, \quad (7)$$

and

$$\Gamma_p = n_i L_D \int_{u_s}^{u_B} \frac{e^{-u} - e^{-u_B}}{F(u, u_B)} du \quad (8)$$

The functions $F(u, u_B)$ and $F(y, \gamma)$ were derived in the paper [1]. n_i is the intrinsic concentration of electrons, $\gamma = n_0/n_i$, u is the value of Fermi energy E_F in the units $k_0 T$ related to a Fermi energy (E_i) of the intrinsic semiconductor ($u = (E_F - E_i)/k_0 T$), u_B and u_s are the values of u in the bulk and at the surface, respectively, Y is the height of the energy barrier at the surface in the units $k_0 T$,

$$L_D = \left(\frac{\epsilon_r \epsilon_0 k_0 T}{2q^2 n_i} \right)^{1/2} \quad (9)$$

where ϵ_r and ϵ_0 are the dielectric constants of the semiconductor and vacuum, respectively, q is the electronic charge.

Now, we introduce the following marking

$$G_n(Y, \gamma) = \gamma \int_Y^0 \frac{e^y - 1}{F(y, \gamma)} dy \quad (10)$$

$$G_p(Y, \gamma) = \gamma^{-1} \int_Y^0 \frac{e^{-y} - 1}{F(y, \gamma)} dy \quad (11)$$

and

$$G(-u_s - u_B) = \int_{u_s}^{u_B} \frac{e^u - e^{u_B}}{F(u, u_B)} du \quad (12)$$

Then the above equations become

$$\Gamma_n = n_i L_D G_n(Y, \gamma) = n_i L_D G(-u_s, -u_B) \quad (13)$$

and

$$\Gamma_p = n_i L_D G_p(Y, \gamma) = n_i L_D G(u_s, u_B). \quad (14)$$

2. Surface Conductivity

By the above method we got the very important integrals necessary for the calculation of surface conductivity σ_s for which it is possible to write

$$\sigma_s = q\mu_p n_i L_D [b\Gamma_n + \Gamma_p] \quad (15)$$

or

$$\sigma_s = q\mu_p n_i L_D [bG(-u_s, -u_B) + G(u_s, u_B)] \quad (16)$$

where μ_p is the mobility of holes and b is the ratio of electron (μ_n) and hole mobilities.

Equation (16) expresses the change in surface conductivity as a function of u_s and u_B . The dependence of σ_s on the surface potential u_s for the given u_B reaches the minimum at the value of $u_{s,m}$ equal to

$$u_{s,m} = -u_B - \log \left(\frac{\mu_n}{\mu_p} \right) \quad (17)$$

With this value the height of the surface barrier Y_m achieves the value

$$Y_m = -2u_B - \log \left(\frac{\mu_n}{\mu_p} \right) \quad (18)$$

or

$$Y_m = \log [(n_i/n_0)^2 (\mu_p/\mu_n)] = -\log (\gamma^2 b) \quad (19)$$

The position of conductivity minimum is very important for the evaluation of experimental results, for example at field effect measurements.

The G function was integrated by Simpson's rule on a Tesla-200 computer. Entrance data for the program were the quantities u_s and u_B . The table entries for the G function are in the notation in which the first six digits constitute the mantissa. The next digit and sign constitute the exponent of 10 by which the mantissa is multiplied, i.e. $4.84921 + + 09 = 4.84921 \times 10^9$.

Reference

- [1] R. KUŽEL, I. SMETÁKOVÁ, P. MUSILOVÁ: Acta Univ. Carol., Math. Phys., 13, (1972), No 1, 3—86.

Table 1
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.35 \cdot 10^{+17}$		$\gamma = 8.66 \cdot 10^{+16}$		u_s	$\gamma = 2.35 \cdot 10^{+17}$		$\gamma = 8.66 \cdot 10^{+16}$	
	Y	$u_B = 40$	Y	$u_B = 39$		Y	$u_B = 40$	Y	$u_B = 39$
-40	-80	5.47643 +07	-79	9.03800 +07	1	-39	1.24692 -10	-38	2.08422 -10
-39	-79	2.03172 +07	-78	3.36478 +07	2	-38	4.65053 -11	-37	7.77633 -11
-38	-78	7.52890 +06	-77	1.24859 +07	3	-37	1.73513 -11	-36	2.90257 -11
-37	-77	2.78890 +06	-76	4.62777 +06	4	-36	6.47652 -12	-35	1.08388 -11
-36	-76	1.03299 +06	-75	1.71457 +06	5	-35	2.41845 -12	-34	4.04929 -12
-35	-75	3.82628 +05	-74	6.35189 +05	6	-34	9.03518 -13	-33	1.51352 -12
-34	-74	1.41737 +05	-73	2.35322 +05	7	-33	3.37713 -13	-32	5.66015 -13
-33	-73	5.25086 +04	-72	8.71880 +04	8	-32	1.26295 -13	-31	2.11792 -13
-32	-72	1.94544 +04	-71	3.23065 +04	9	-31	4.72571 -14	-30	7.92958 -14
-31	-71	7.20858 +03	-70	1.19720 +04	10	-30	1.76933 -14	-29	2.97078 -14
-30	-70	2.67132 +03	-69	4.43702 +03	11	-29	6.62870 -15	-28	1.11375 -14
-29	-69	9.90034 +02	-68	1.64461 +03	12	-28	2.48513 -15	-27	4.17864 -15
-28	-68	3.66963 +02	-67	6.09657 +02	13	-27	9.32381 -16	-26	1.56902 -15
-27	-67	1.36033 +02	-66	2.26026 +02	14	-26	3.50097 -16	-25	5.89665 -16
-26	-66	5.04333 +01	-65	8.38081 +01	15	-25	1.31572 -16	-24	2.21818 -16
-25	-65	1.87001 +01	-64	3.10790 +01	16	-24	4.94943 -17	-23	8.35299 -17
-24	-64	6.93467 +00	-63	1.15267 +01	17	-23	1.86380 -17	-22	3.14909 -17
-23	-63	2.57195 +00	-62	4.27564 +00	18	-22	7.02658 -18	-21	1.18872 -17
-22	-62	9.54025 -01	-61	1.58620 +00	19	-21	2.65240 -18	-20	4.49354 -18
-21	-61	3.53929 -01	-60	5.88542 -01	20	-20	1.00264 -18	-19	1.70129 -18
-20	-60	1.31321 -01	-59	2.18404 -01	21	-19	3.79610 -19	-18	6.45266 -19
-19	-59	4.87326 -02	-58	8.10611 -02	22	-18	1.43978 -19	-17	2.45227 -19
-18	-58	1.80871 -02	-57	3.00907 -02	23	-17	5.47175 -20	-16	9.34097 -20
-17	-57	6.71415 -03	-56	1.11718 -02	24	-16	2.08425 -20	-15	3.56749 -20
-16	-56	2.49277 -03	-55	4.14850 -03	25	-15	7.96015 -21	-14	1.36670 -20
-15	-55	9.25656 -04	-54	1.54076 -03	26	-14	3.04952 -21	-13	5.25494 -21
-14	-54	3.43790 -04	-53	5.72348 -04	27	-13	1.17253 -21	-12	2.02938 -21
-13	-53	1.27708 -04	-52	2.12651 -04	28	-12	4.52816 -22	-11	7.87917 -22
-12	-52	4.74489 -05	-51	7.90248 -05	29	-11	1.75808 -22	-10	3.07946 -22
-11	-51	1.76328 -05	-50	2.93731 -05	30	-10	6.87121 -23	-9	1.21365 -22
-10	-50	6.55402 -06	-49	1.09201 -05	31	-9	2.70802 -23	-8	4.83407 -23
-9	-49	2.43662 -06	-48	4.06077 -06	32	-8	1.07852 -23	-7	1.95134 -23
-8	-48	9.06082 -07	-47	1.51039 -06	33	-7	4.35404 -24	-6	8.00617 -23
-7	-47	3.37015 -07	-46	5.61927 -07	34	-6	1.78642 -24	-5	3.34464 -24
-6	-46	1.25383 -07	-45	2.09113 -07	35	-5	7.46291 -25	-4	1.41872 -24
-5	-45	4.66595 -08	-44	7.78398 -08	36	-4	3.16560 -25	-3	6.01697 -25
-4	-44	1.73684 -08	-43	2.89831 -08	37	-3	1.34256 -25	-2	2.42758 -25
-3	-43	6.46700 -09	-42	1.07948 -08	38	-2	5.41666 -26	-1	7.79183 -26
-2	-42	2.40866 -09	-41	4.02185 -09	39	-1	1.73859 -26	0	0.00000 -00
-1	-41	8.97397 -10	-40	1.49892 -09	40	0	0.00000 -00	1	-3.89673 -26
0	-40	3.34454 -10	-39	5.58832 -10					

Table 2
 $G(u_s, u_B)$ Function

u_s	$\gamma = 3.19 \cdot 10^{+16}$		$\gamma = 1.17 \cdot 10^{+16}$		u_s	$\gamma = 3.19 \cdot 10^{+16}$		$\gamma = 1.17 \cdot 10^{+16}$	
	Y	$u_B = 38$	Y	$u_B = 37$		Y	$u_B = 38$	Y	$u_B = 37$
-40	-78	1.47812 +08	-77	2.36340 +08	1	-37	3.48511 -10	-36	5.82998 -10
-39	-77	5.55320 +07	-76	9.08019 +07	2	-36	1.30084 -10	-35	2.17703 -10
-38	-76	2.06806 +07	-75	3.41322 +07	3	-35	4.85761 -11	-34	8.13321 -11
-37	-75	7.67591 +06	-74	1.27153 +07	4	-34	1.81476 -11	-33	3.03999 -11
-36	-74	2.84557 +06	-73	4.72065 +06	5	-33	6.78315 -12	-32	1.13687 -11
-35	-73	1.05448 +06	-72	1.75039 +06	6	-32	2.53670 -12	-31	4.25395 -12
-34	-72	3.90727 +05	-71	6.48780 +05	7	-31	9.49185 -13	-30	1.59270 -12
-33	-71	1.44784 +05	-70	2.40449 +05	8	-30	3.55379 -13	-29	5.96697 -13
-32	-70	5.36545 +04	-69	8.91178 +04	9	-29	1.33141 -13	-28	2.23704 -13
-31	-69	1.98853 +04	-68	3.30326 +04	10	-28	4.99151 -14	-27	8.39302 -14
-30	-68	7.37064 +03	-67	1.22452 +04	11	-27	1.87273 -14	-26	3.15147 -14
-29	-67	2.73229 +03	-66	4.53986 +03	12	-26	7.03188 -15	-25	1.18437 -14
-28	-66	1.01298 +03	-65	1.68333 +03	13	-25	2.64269 -15	-24	4.45533 -15
-27	-65	3.75602 +02	-64	6.24239 +02	14	-24	9.94119 -16	-23	1.67774 -15
-26	-64	1.39286 +02	-63	2.31520 +02	15	-23	3.74355 -16	-22	6.32513 -16
-25	-63	5.16591 +01	-62	8.58786 +01	16	-22	1.41132 -16	-21	2.38762 -16
-24	-62	1.91621 +01	-61	3.18597 +01	17	-21	5.32750 -17	-20	9.02552 -17
-23	-61	7.10886 +00	-60	1.18211 +01	18	-20	2.01386 -17	-19	3.41714 -17
-22	-60	2.63766 +00	-59	4.38677 +00	19	-19	7.62468 -18	-18	1.29605 -17
-21	-59	9.78821 -01	-58	1.62815 +00	20	-18	2.89188 -18	-17	4.92551 -18
-20	-58	3.63290 -01	-57	6.04388 -01	21	-17	1.09903 -18	-16	1.87618 -18
-19	-57	1.34857 -01	-56	2.24392 -01	22	-16	4.18633 -19	-15	7.16550 -19
-18	-56	5.00687 -02	-55	8.33249 -02	23	-15	1.59884 -19	-14	2.74509 -19
-17	-55	1.85923 -02	-54	3.09470 -02	24	-14	6.12513 -20	-13	1.05548 -19
-16	-54	6.90521 -03	-53	1.14959 -02	25	-13	2.35510 -20	-12	4.07612 -20
-15	-53	2.56508 -03	-52	4.27122 -03	26	-12	9.09506 -21	-11	1.58257 -20
-14	-52	9.53038 -04	-51	1.58725 -03	27	-11	3.53120 -21	-10	6.18527 -21
-13	-51	3.54165 -04	-50	5.89974 -04	28	-10	1.38012 -21	-9	2.43768 -21
-12	-50	1.31641 -04	-49	2.19337 -04	29	-9	5.43921 -22	-8	9.70949 -22
-11	-49	4.89409 -05	-48	8.15629 -05	30	-8	2.16648 -22	-7	3.91938 -22
-10	-48	1.81991 -05	-47	3.03371 -05	31	-7	8.74532 -23	-6	1.60808 -22
-9	-47	6.76913 -06	-46	1.12866 -05	32	-6	3.58812 -23	-5	6.71790 -23
-8	-46	2.51838 -06	-45	4.20015 -06	33	-5	1.49896 -23	-4	2.84958 -23
-7	-45	9.37182 -07	-44	1.56345 -06	34	-4	6.35828 -24	-3	1.20854 -23
-6	-44	3.48854 -07	-43	5.82141 -07	35	-3	2.69662 -24	-2	4.87592 -24
-5	-43	1.29893 -07	-42	2.16820 -07	36	-2	1.08796 -24	-1	1.56503 -24
-4	-42	4.83792 -08	-41	8.07811 -08	37	-1	3.49206 -25	0	0.00000 -00
-3	-41	1.80247 -08	-40	3.01066 -08	38	0	0.00000 -00	1	-7.82680 -25
-2	-40	6.71769 -09	-39	1.12244 -08	39	1	-1.74639 -25	2	-1.22484 -24
-1	-39	2.50451 -09	-38	4.18627 -09	40	2	-2.73300 -25	3	-1.47387 -24
0	-38	9.34084 -10	-37	1.56191 -09					

Table 3
 $G(u_s, u_B)$ Function

u_s	$\gamma = 4.31 \cdot 10^{+15}$		$\gamma = 1.59 \cdot 10^{+15}$		u_s	$\gamma = 4.31 \cdot 10^{+15}$		$\gamma = 1.59 \cdot 10^{+15}$	
	Y	$u_B = 36$	Y	$u_B = 35$		Y	$u_B = 36$	Y	$u_B = 35$
-40	-76	3.59960 +08	-75	5.05643 +08	1	-35	9.75677 -10	-34	1.63350 -09
-39	-75	1.45080 +08	-74	2.20613 +08	2	-34	3.64505 -10	-33	6.10600 -10
-38	-74	5.57987 +07	-73	8.90861 +07	3	-33	1.36243 -10	-32	2.28347 -10
-37	-73	2.09866 +07	-72	3.43010 +07	4	-32	5.09511 -11	-31	8.54429 -11
-36	-72	7.82094 +06	-71	1.29088 +07	5	-31	1.90649 -11	-30	3.19902 -11
-35	-71	2.90432 +06	-70	4.81243 +06	6	-30	7.13798 -12	-29	1.19849 -11
-34	-70	1.07716 +06	-69	1.78760 +06	7	-29	2.67421 -12	-28	4.49322 -12
-33	-69	3.99335 +05	-68	6.63149 +05	8	-28	1.00257 -12	-27	1.68578 -12
-32	-68	1.48033 +05	-67	2.45907 +05	9	-27	3.76149 -13	-26	6.32990 -13
-31	-67	5.48782 +04	-66	9.11792 +04	10	-26	1.41239 -13	-25	2.37888 -13
-30	-66	2.03460 +04	-65	3.38097 +04	11	-25	5.30800 -14	-24	8.94877 -14
-29	-65	7.54414 +03	-64	1.25380 +04	12	-24	1.99674 -14	-23	3.36983 -14
-28	-64	2.79764 +03	-63	4.65019 +03	13	-23	7.51912 -15	-22	1.27043 -14
-27	-63	1.03760 +03	-62	1.72491 +03	14	-22	2.83472 -15	-21	4.79566 -15
-26	-62	3.84881 +02	-61	6.39919 +02	15	-21	1.07005 -15	-20	1.81282 -15
-25	-61	1.42785 +02	-60	2.37435 +02	16	-20	4.04496 -16	-19	6.85351 -16
-24	-60	5.29789 +01	-59	8.81106 +01	17	-19	1.53145 -16	-18	2.60319 -16
-23	-59	1.96601 +01	-58	3.27023 +01	18	-18	5.80850 -17	-17	9.89316 -17
-22	-58	7.29688 +00	-57	1.21394 +01	19	-17	2.20746 -17	-16	3.76841 -17
-21	-57	2.70868 +00	-56	4.50704 +00	20	-16	8.40847 -18	-15	1.43922 -17
-20	-56	1.00565 +00	-55	1.67362 +00	21	-15	3.21135 -18	-14	5.51366 -18
-19	-55	3.73436 -01	-54	6.21588 -01	22	-14	1.23026 -18	-13	2.11999 -18
-18	-54	1.38695 -01	-53	2.30901 -01	23	-13	4.73035 -19	-12	8.18712 -19
-17	-53	5.15211 -02	-52	8.57897 -02	24	-12	1.82679 -19	-11	3.17858 -19
-16	-52	1.91422 -02	-51	3.18809 -02	25	-11	7.09260 -20	-10	1.24234 -19
-15	-51	7.11359 -03	-50	1.18499 -02	26	-10	2.77204 -20	-9	4.89622 -20
-14	-50	2.64408 -03	-49	4.40552 -03	27	-9	1.09249 -20	-8	1.95020 -20
-13	-49	9.83004 -04	-48	1.63823 -03	28	-8	4.35149 -21	-7	7.87229 -21
-12	-48	3.65539 -04	-47	6.09337 -04	29	-7	1.75654 -21	-6	3.22992 -21
-11	-47	1.35961 -04	-46	2.26697 -04	30	-6	7.20693 -22	-5	1.34932 -21
-10	-46	5.05831 -05	-45	8.43624 -05	31	-5	3.01075 -22	-4	5.72355 -22
-9	-45	1.88238 -05	-44	3.14028 -05	32	-4	1.27709 -22	-3	2.42742 -22
-8	-44	7.00692 -06	-43	1.16926 -05	33	-3	5.41631 -23	-2	9.79355 -23
-7	-43	2.60897 -06	-42	4.35496 -06	34	-2	2.18523 -23	-1	3.14345 -23
-6	-42	9.71724 -07	-41	1.62253 -06	35	-1	7.01399 -24	0	0.00000 -00
-5	-41	3.62036 -07	-40	6.04708 -07	36	0	0.00000 -00	1	-1.57205 -23
-4	-40	1.34928 -07	-39	2.25449 -07	37	1	-3.50772 -24	2	-2.46017 -23
-3	-39	5.03045 -08	-38	8.40835 -08	38	2	-5.48938 -24	3	-2.96035 -23
-2	-38	1.87615 -08	-37	3.13719 -08	39	3	-6.60545 -24	4	-3.25099 -23
-1	-37	7.00003 -09	-36	1.17098 -08	40	4	-7.25394 -24	5	-3.42326 -23
0	-36	2.61281 -09	-35	4.37268 -09					

Table 4
 $G(u_s, u_B)$ Function

u_s	$\gamma = 5.83 \cdot 10^{+14}$		$\gamma = 2.15 \cdot 10^{+14}$		u_s	$\gamma = 5.83 \cdot 10^{+14}$		$\gamma = 2.15 \cdot 10^{+14}$	
	Y	$u_B = 34$	Y	$u_B = 33$		Y	$u_B = 34$	Y	$u_B = 33$
-40	-74	6.45044 +08	-73	7.56317 +08	1	-33	2.73652 -09	-32	4.58647 -09
-39	-73	3.09155 +08	-72	3.93408 +08	2	-32	1.02338 -09	-31	1.71616 -09
-38	-72	1.35241 +08	-71	1.89050 +08	3	-31	3.82928 -10	-30	6.42541 -10
-37	-71	5.47202 +07	-70	8.29262 +07	4	-30	1.43370 -10	-29	2.40724 -10
-36	-70	2.10935 +07	-69	3.36224 +07	5	-29	5.37129 -11	-28	9.02487 -11
-35	-69	7.94343 +06	-68	1.29767 +07	6	-28	2.01372 -11	-27	3.38598 -11
-34	-68	2.96247 +06	-67	4.89007 +06	7	-27	7.55516 -12	-26	1.27139 -11
-33	-67	1.10075 +06	-66	1.82449 +06	8	-26	2.83685 -12	-25	4.77811 -12
-32	-66	4.08452 +05	-65	6.78127 +05	9	-25	1.06614 -12	-24	1.79741 -12
-31	-65	1.51499 +05	-64	2.51700 +05	10	-24	4.01056 -13	-23	6.76849 -13
-30	-64	5.61881 +04	-63	9.33831 +04	11	-23	1.51025 -13	-22	2.55174 -13
-29	-63	2.08402 +04	-62	3.45433 +04	12	-22	5.69370 -14	-21	9.63234 -14
-28	-62	7.73047 +03	-61	1.28527 +04	13	-21	2.14926 -14	-20	3.64115 -14
-27	-61	2.86791 +03	-60	4.76895 +03	14	-20	8.12452 -15	-19	1.37857 -14
-26	-60	1.06410 +03	-59	1.76974 +03	15	-19	3.07601 -15	-18	5.22864 -15
-25	-59	3.94884 +02	-58	6.56844 +02	16	-18	1.16666 -15	-17	1.98709 -15
-24	-58	1.46561 +02	-57	2.43827 +02	17	-17	4.43380 -16	-16	7.56906 -16
-23	-57	5.44053 +01	-56	9.05263 +01	18	-16	1.68888 -16	-15	2.89077 -16
-22	-56	2.01991 +01	-55	3.36156 +01	19	-15	6.45017 -17	-14	1.10745 -16
-21	-55	7.50067 +00	-54	1.24849 +01	20	-14	2.47105 -17	-13	4.25812 -17
-20	-54	2.78576 +00	-53	4.63778 +00	21	-13	9.50116 -18	-12	1.64442 -17
-19	-53	1.03483 +00	-52	1.72313 +00	22	-12	3.66921 -18	-11	6.38455 -18
-18	-52	3.84483 -01	-51	6.40345 -01	23	-11	1.42458 -18	-10	2.49531 -18
-17	-51	1.42880 -01	-50	2.38012 -01	24	-10	5.56780 -19	-9	9.83432 -19
-16	-50	5.31078 -02	-49	8.84872 -02	25	-9	2.19433 -19	-8	3.91708 -19
-15	-49	1.97441 -02	-48	3.29048 -02	26	-8	8.74020 -20	-7	1.58119 -19
-14	-48	7.34205 -03	-47	1.22388 -02	27	-7	3.52811 -20	-6	6.48747 -20
-13	-47	2.73086 -03	-46	4.55334 -03	28	-6	1.44755 -20	-5	2.71019 -20
-12	-45	1.01598 -03	-45	1.69446 -03	29	-5	6.04726 -21	-4	1.14960 -20
-11	-45	3.78086 -04	-44	6.30742 -04	30	-4	2.56511 -21	-3	4.87560 -21
-10	-44	1.40737 -04	-43	2.34852 -04	31	-3	1.08789 -21	-2	1.96708 -21
-9	-43	5.24027 -05	-42	8.74718 -05	32	-2	4.38916 -22	-1	6.31379 -22
-8	-42	1.95176 -05	-41	3.25894 -05	33	-1	1.40879 -22	0	0.00000 -00
-7	-41	7.27168 -06	-40	1.21458 -05	34	0	0.00000 -00	1	-3.15755 -22
-6	-40	2.71011 -06	-39	4.52826 -06	35	1	-7.04546 -23	2	-4.94138 -22
-5	-39	1.01039 -06	-38	1.68886 -06	36	2	-1.10257 -22	3	-5.94604 -22
-4	-38	3.76836 -07	-37	6.30122 -07	37	3	-1.32674 -22	4	-6.52979 -22
-3	-37	1.40599 -07	-36	2.35198 -07	38	4	-1.45699 -22	5	-6.87581 -22
-2	-36	5.24798 -08	-35	8.78276 -08	39	5	-1.53420 -22	6	-7.08327 -22
-1	-35	1.95970 -08	-34	3.28117 -08	40	6	-1.58049 -22	7	-7.20841 -22
0	-34	7.32128 -09	-33	1.22642 -08					

Table 5
 $G(u_s, u_B)$ Function

u_s	$\gamma = 7.90 \cdot 10^{+13}$		$\gamma = 2.90 \cdot 10^{+13}$		u_s	$\gamma = 7.90 \cdot 10^{+13}$		$\gamma = 2.90 \cdot 10^{+13}$	
	Y	$u_B = 32$	Y	$u_B = 31$		Y	$u_B = 32$	Y	$u_B = 31$
-40	-72	8.34954 +08	-71	8.86689 +08	1	-31	7.69133 -09	-30	1.29057 -08
-39	-71	4.60371 +08	-70	5.07562 +08	2	-30	2.87967 -09	-29	4.83508 -09
-38	-70	2.39960 +08	-69	2.80245 +08	3	-29	1.07885 -09	-28	1.81269 -09
-37	-69	1.15624 +08	-68	1.46378 +08	4	-28	4.04467 -10	-27	6.80094 -10
-36	-68	5.08611 +07	-67	7.07280 +07	5	-27	1.51749 -10	-26	2.55366 -10
-35	-67	2.06662 +07	-66	3.12030 +07	6	-26	5.69799 -11	-25	9.59709 -11
-34	-66	7.98654 +06	-65	1.27073 +07	7	-25	2.14140 -11	-24	3.61019 -11
-33	-65	3.01176 +06	-64	4.91750 +06	8	-24	8.05543 -12	-23	1.35948 -11
-32	-64	1.12419 +06	-63	1.85582 +06	9	-23	3.03343 -12	-22	5.12530 -12
-31	-63	4.17976 +05	-62	6.93041 +05	10	-22	1.14361 -12	-21	1.93470 -12
-30	-62	1.55185 +05	-61	2.57765 +05	11	-21	4.31691 -13	-20	7.31346 -13
-29	-61	5.75917 +04	-60	9.57330 +04	12	-20	1.63185 -13	-19	2.76894 -13
-28	-60	2.13715 +04	-59	3.55387 +04	13	-19	6.17834 -14	-18	1.05020 -13
-27	-59	7.93124 +03	-58	1.31920 +04	14	-18	2.34331 -14	-17	3.99118 -14
-26	-58	2.94374 +03	-57	4.89726 +03	15	-17	8.90554 -15	-16	1.52028 -14
-25	-57	1.09275 +03	-56	1.81825 +03	16	-16	3.39222 -15	-15	5.80626 -15
-24	-56	4.05710 +02	-55	6.75186 +02	17	-15	1.29555 -15	-14	2.22437 -15
-23	-55	1.50654 +02	-54	2.50766 +02	18	-14	4.96324 -16	-13	8.55267 -16
-22	-54	5.59535 +01	-53	9.31523 +01	19	-13	1.90836 -16	-12	3.30292 -16
-21	-53	2.07851 +01	-52	3.46100 +01	20	-12	7.36981 -17	-11	1.28237 -16
-20	-52	7.72254 +00	-51	1.28616 +01	21	-11	2.86136 -17	-10	5.01197 -17
-19	-51	2.86982 +00	-50	4.78061 +00	22	-10	1.11832 -17	-9	1.97527 -17
-18	-50	1.06669 +00	-49	1.77731 +00	23	-9	4.40743 -18	-8	7.86768 -18
-17	-49	3.96572 -01	-48	6.60911 -01	24	-8	1.75551 -18	-7	3.17591 -18
-16	-48	1.47469 -01	-47	2.45824 -01	25	-7	7.08641 -19	-6	1.30304 -18
-15	-47	5.48508 -02	-46	9.14564 -02	26	-6	2.90748 -19	-5	5.44357 -19
-14	-46	2.04066 -02	-45	3.40342 -02	27	-5	1.21462 -19	-4	2.30904 -19
-13	-45	7.59406 -03	-44	1.26688 -02	28	-4	5.15217 -20	-3	9.79291 -20
-12	-44	2.82679 -03	-43	4.71714 -03	29	-3	2.18509 -20	-2	3.95100 -20
-11	-43	1.05253 -03	-42	1.75691 -03	30	-2	8.81587 -21	-1	1.26815 -20
-10	-42	3.92021 -04	-41	6.54576 -04	31	-1	2.82964 -21	0	0.00000 -00
-9	-41	1.45055 -04	-40	2.43956 -04	32	0	0.00000 -00	1	-6.34212 -21
-8	-40	5.44340 -05	-39	9.09527 -05	33	1	1.41511 -21	2	-9.92503 -21
-7	-39	2.02943 -05	-38	3.39217 -05	34	2	2.21457 -21	3	-1.19429 -20
-6	-38	7.56896 -06	-37	1.26563 -05	35	3	2.66483 -21	4	-1.31154 -20
-5	-37	2.82401 -06	-36	4.72408 -06	36	4	2.92645 -21	5	-1.38104 -20
-4	-36	1.05408 -06	-35	1.76406 -06	37	5	3.08152 -21	6	-1.42271 -20
-3	-35	3.93616 -07	-34	6.59041 -07	38	6	3.17450 -21	7	-1.44784 -20
-2	-34	1.47052 -07	-33	2.46333 -07	39	7	3.23058 -21	8	-1.46305 -20
-1	-33	5.49644 -08	-32	9.21217 -08	40	8	3.26451 -21	9	-1.47226 -20
0	-32	2.05551 -08	-31	3.44701 -08					

Table 6
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.07 \cdot 10^{+13}$				$\gamma = 3.93 \cdot 10^{+12}$				u_s	$\gamma = 1.07 \cdot 10^{+13}$				$\gamma = 3.93 \cdot 10^{+12}$			
	Y	$u_B = 30$	Y	$u_B = 29$	Y	$u_B = 30$	Y	$u_B = 29$		Y	$u_B = 30$	Y	$u_B = 29$	Y	$u_B = 30$	Y	$u_B = 29$
—40	—70	9.19373 +08	—69	9.39548 +08	1	—29	2.16693 —08	—28	3.64089 —08	—29	2.16693 —08	—28	3.64089 —08	—27	1.36600 —08	—26	5.12917 —09
—39	—69	5.38552 +08	—68	5.58107 +08	2	—28	8.12393 —09	—27	1.36600 —08	—27	8.12393 —09	—26	1.36600 —08	—25	1.92762 —09	—24	7.25127 —10
—38	—68	3.08554 +08	—67	3.27110 +08	3	—27	3.04797 —09	—26	5.12917 —09	—26	3.04797 —09	—25	5.12917 —09	—25	1.92762 —09	—24	7.25127 —10
—37	—67	1.70606 +08	—66	1.87581 +08	4	—26	1.14447 —09	—25	1.92762 —09	—25	1.14447 —09	—24	1.92762 —09	—24	7.25127 —10	—23	2.73060 —10
—36	—66	8.93021 +07	—65	1.03857 +08	5	—25	4.30112 —10	—24	7.25127 —10	—24	4.30112 —10	—23	7.25127 —10	—23	2.73060 —10	—22	1.02944 —10
—35	—65	4.32724 +07	—64	5.44870 +07	6	—24	1.61797 —10	—23	2.73060 —10	—23	1.61797 —10	—22	2.73060 —10	—21	3.88596 —11	—20	1.46894 —11
—34	—64	1.91482 +07	—63	2.64796 +07	7	—23	6.09280 —11	—22	3.88596 —11	—22	6.09280 —11	—21	3.88596 —11	—21	5.56156 —12	—20	2.10938 —12
—33	—63	7.81660 +06	—62	1.17541 +07	8	—22	2.29700 —11	—21	5.56156 —12	—21	2.29700 —11	—20	5.56156 —12	—20	8.01651 —13	—19	3.05358 —13
—32	—62	3.02924 +06	—61	4.81016 +06	9	—21	8.67076 —12	—20	3.05358 —13	—20	8.67076 —12	—19	3.05358 —13	—19	1.16622 —13	—18	4.46777 —14
—31	—61	1.14413 +06	—60	1.86698 +06	10	—20	3.27766 —12	—19	1.16622 —13	—19	3.27766 —12	—18	1.16622 —13	—18	2.10938 —12	—17	8.01651 —13
—30	—60	4.27481 +05	—59	7.05758 +05	11	—19	1.24095 —12	—18	8.01651 —13	—18	1.24095 —12	—17	8.01651 —13	—17	3.05358 —13	—16	1.71785 —14
—29	—59	1.59055 +05	—58	2.63833 +05	12	—18	4.70667 —13	—17	1.71785 —14	—17	4.70667 —13	—16	1.71785 —14	—16	6.63409 —15	—15	2.57571 —15
—28	—58	5.90920 +04	—57	9.82053 +04	13	—17	1.78872 —13	—16	6.63409 —15	—16	1.78872 —13	—15	6.63409 —15	—15	2.57571 —15	—14	1.00668 —15
—27	—57	2.19437 +04	—56	3.64984 +04	14	—16	6.81345 —14	—15	1.00668 —15	—15	6.81345 —14	—14	1.00668 —15	—14	2.57571 —15	—13	1.09337 —17
—26	—56	8.14824 +03	—55	1.35583 +04	15	—15	2.60218 —14	—14	1.09337 —17	—17	2.60218 —14	—13	1.09337 —17	—13	4.46777 —14	—12	1.09337 —17
—25	—55	3.02589 +03	—54	5.03634 +03	16	—14	9.96894 —15	—13	1.09337 —17	—17	9.96894 —15	—13	1.09337 —17	—13	4.46777 —14	—11	1.09337 —17
—24	—54	1.12384 +03	—53	1.87095 +03	17	—13	3.83304 —15	—12	1.09337 —17	—17	3.83304 —15	—12	1.09337 —17	—17	6.63409 —15	—15	2.57571 —15
—23	—53	4.17478 +02	—52	6.95153 +02	18	—12	1.48026 —15	—11	2.57571 —15	—15	1.48026 —15	—11	2.57571 —15	—15	6.37898 —17	—14	2.57571 —15
—22	—52	1.55111 +02	—51	2.58332 +02	19	—11	5.74719 —16	—10	6.37898 —17	—17	5.74719 —16	—10	6.37898 —17	—17	2.61723 —17	—16	3.96745 —16
—21	—51	5.76420 +01	—50	9.60210 +01	20	—10	2.24621 —16	—9	3.96745 —16	—16	2.24621 —16	—9	3.96745 —16	—16	1.00668 —15	—15	1.58026 —16
—20	—50	2.14252 +01	—49	3.56982 +01	21	—9	8.85257 —17	—8	1.58026 —16	—16	8.85257 —17	—8	1.58026 —16	—16	2.57571 —15	—14	1.58026 —16
—19	—49	7.96536 +00	—48	1.32747 +01	22	—8	3.52605 —17	—7	1.58026 —16	—16	3.52605 —17	—7	1.58026 —16	—16	6.37898 —17	—13	2.57571 —15
—18	—48	2.96199 +00	—47	4.93751 +00	23	—7	1.42334 —17	—6	2.57571 —15	—15	1.42334 —17	—6	2.57571 —15	—15	2.61723 —17	—14	1.09337 —17
—17	—47	1.10170 +00	—46	1.83695 +00	24	—6	5.83983 —18	—5	1.09337 —17	—17	5.83983 —18	—5	1.09337 —17	—17	4.46777 —14	—13	1.09337 —17
—16	—46	4.09879 —01	—45	6.83596 —01	25	—5	2.43964 —18	—4	1.09337 —17	—17	2.43964 —18	—4	1.09337 —17	—17	4.46777 —14	—12	4.46777 —14
—15	—45	1.52530 —01	—44	2.54459 —01	26	—4	1.03484 —18	—3	4.46777 —14	—14	1.03484 —18	—3	4.46777 —14	—14	1.96696 —18	—13	1.96696 —18
—14	—44	5.67776 —02	—43	9.47463 —02	27	—3	4.38888 —19	—2	1.96696 —18	—18	4.38888 —19	—2	1.96696 —18	—18	7.93580 —19	—17	7.93580 —19
—13	—43	2.11407 —02	—42	3.52886 —02	28	—2	1.77071 —19	—1	7.93580 —19	—19	1.77071 —19	—1	7.93580 —19	—19	2.54716 —19	—18	2.54716 —19
—12	—42	7.87396 —03	—41	1.31475 —02	29	—1	5.68349 —20	0	2.54716 —19	—19	5.68349 —20	0	2.54716 —19	—19	0.00000 —00	—0	0.00000 —00
—11	—41	2.93360 —03	—40	4.90000 —03	30	0	0.00000 —00	1	0.00000 —00	1	0.00000 —00	1	0.00000 —00	1	—1.27385 —19	—19	—1.27385 —19
—10	—40	1.09333 —03	—39	1.82683 —03	31	1	—2.84234 —20	2	—2.84234 —20	2	—2.84234 —20	2	—2.84234 —20	2	—1.99349 —19	—19	—1.99349 —19
—9	—39	4.07621 —04	—38	6.81336 —04	32	2	—4.44809 —20	3	—4.44809 —20	3	—4.44809 —20	3	—4.44809 —20	3	—2.39880 —19	—19	—2.39880 —19
—8	—38	1.52026 —04	—37	2.54209 —04	33	3	—5.35245 —20	4	—5.35245 —20	4	—5.35245 —20	4	—5.35245 —20	4	—2.63430 —19	—19	—2.63430 —19
—7	—37	5.67218 —05	—36	9.48857 —05	34	4	—5.87793 —20	5	—5.87793 —20	5	—5.87793 —20	5	—5.87793 —20	5	—2.77390 —19	—19	—2.77390 —19
—6	—36	2.11718 —05	—35	3.54322 —05	35	5	—6.18940 —20	6	—6.18940 —20	6	—6.18940 —20	6	—6.18940 —20	6	—2.85759 —19	—19	—2.85759 —19
—5	—35	7.90599 —06	—34	1.32372 —05	36	6	—6.37615 —20	7	—6.37615 —20	7	—6.37615 —20	7	—6.37615 —20	7	—2.90808 —19	—19	—2.90808 —19
—4	—34	2.95361 —06	—33	4.94774 —06	37	7	—6.48880 —20	8	—6.48880 —20	8	—6.48880 —20	8	—6.48880 —20	8	—2.93852 —19	—19	—2.93852 —19
—3	—33	1.10399 —06	—32	1.85031 —06	38	8	—6.55696 —20	9	—6.55696 —20	9	—6.55696 —20	9	—6.55696 —20	9	—2.95713 —19	—19	—2.95713 —19
—2	—32	4.12861 —07	—31	6.92351 —07	39	9	—6.59825 —20	10	—6.59825 —20	10	—6.59825 —20	10	—6.59825 —20	10	—2.96835 —19	—19	—2.96835 —19
—1	—31	1.54484 —07	—30	2.59219 —07	40	10	—6.62328 —20	11	—6.62328 —20	11	—6.62328 —20	11	—6.62328 —20	11	—2.97515 —19	—19	—2.97515 —19
0	—30	5.78397 —08	—29	9.71153 —08													

Table 7
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.45 \cdot 10^{+12}$		$\gamma = 5.32 \cdot 10^{+11}$		u_s	$\gamma = 1.45 \cdot 10^{+12}$		$\gamma = 5.32 \cdot 10^{+11}$	
	Y	$u_B = 28$	Y	$u_B = 27$		Y	$u_B = 28$	Y	$u_B = 27$
-40	-68	9.51834 + 08	-67	9.59254 + 08	1	-27	6.12201 - 08	-26	1.03022 - 07
-39	-67	5.70167 + 08	-66	5.77505 + 08	2	-26	2.29873 - 08	-25	3.87174 - 08
-38	-66	3.38805 + 08	-65	3.46010 + 08	3	-25	8.63903 - 09	-24	1.45645 - 08
-37	-65	1.98688 + 08	-64	2.05678 + 08	4	-24	3.24979 - 09	-23	5.48457 - 09
-36	-64	1.14042 + 08	-63	1.20686 + 08	5	-23	1.22377 - 09	-22	2.06769 - 09
-35	-63	6.32401 + 07	-62	6.93362 + 07	6	-22	4.61365 - 10	-21	7.80517 - 10
-34	-62	3.32486 + 07	-61	3.85067 + 07	7	-21	1.74156 - 10	-20	2.95046 - 10
-33	-61	1.62068 + 07	-60	2.02911 + 07	8	-20	6.58336 - 11	-19	1.11707 - 10
-32	-60	7.21755 + 06	-59	9.92140 + 06	9	-19	2.49252 - 11	-18	4.23681 - 11
-31	-59	2.96137 + 06	-58	4.43335 + 06	10	-18	9.45361 - 12	-17	1.61016 - 11
-30	-58	1.15126 + 06	-57	1.82401 + 06	11	-17	3.59275 - 12	-16	6.13327 - 12
-29	-57	4.35603 + 05	-56	7.10330 + 05	12	-16	1.36851 - 12	-15	2.34241 - 12
-28	-56	1.62934 + 05	-55	2.69031 + 05	13	-15	5.22663 - 13	-14	8.97375 - 13
-27	-55	6.06749 + 04	-54	1.00691 + 05	14	-14	2.00231 - 13	-13	3.45039 - 13
-26	-54	2.25588 + 04	-53	3.75138 + 04	15	-13	7.69887 - 14	-12	1.33249 - 13
-25	-53	8.38329 + 03	-52	1.39534 + 04	16	-12	2.97319 - 14	-11	5.17346 - 14
-24	-52	3.11521 + 03	-51	5.18747 + 03	17	-11	1.15435 - 14	-10	2.02197 - 14
-23	-51	1.15773 + 03	-50	1.92845 + 03	18	-10	4.51163 - 15	-9	7.96883 - 15
-22	-50	4.30331 + 02	-49	7.16994 + 02	19	-9	1.77808 - 15	-8	3.17405 - 15
-21	-49	1.59987 + 02	-48	2.66627 + 02	20	-8	7.08226 - 16	-7	1.28125 - 15
-20	-48	5.94932 + 01	-47	9.91721 + 01	21	-7	2.85886 - 16	-6	5.25685 - 16
-19	-47	2.21283 + 01	-46	3.68960 + 01	22	-6	1.17296 - 16	-5	2.19609 - 16
-18	-46	8.23264 + 00	-45	1.37303 + 01	23	-5	4.90014 - 17	-4	9.31535 - 17
-17	-45	3.06366 + 00	-44	5.11096 + 00	24	-4	2.07853 - 17	-3	3.95074 - 17
-16	-44	1.14041 + 00	-43	1.90303 + 00	25	-3	8.81530 - 18	-2	1.59394 - 17
-15	-43	4.24623 - 01	-42	7.08791 - 01	26	-2	3.55658 - 18	-1	5.11611 - 18
-14	-42	1.58152 - 01	-41	2.64075 - 01	27	-1	1.14156 - 18	0	0.00000 - 00
-13	-41	5.89231 - 02	-40	9.84191 - 02	28	0	0.00000 - 00	1	-2.55859 - 18
-12	-40	2.19602 - 02	-39	3.66929 - 02	29	1	-5.70899 - 19	2	-4.00404 - 18
-11	-39	8.18730 - 03	-38	1.36850 - 02	30	2	-8.93423 - 19	3	-4.81812 - 18
-10	-38	3.05353 - 03	-37	5.10593 - 03	31	3	-1.07506 - 18	4	-5.29114 - 18
-9	-37	1.13928 - 03	-36	1.90583 - 03	32	4	-1.18061 - 18	5	-5.57152 - 18
-8	-36	4.25248 - 04	-35	7.11675 - 04	33	5	-1.24317 - 18	6	-5.73963 - 18
-7	-35	1.58796 - 04	-34	2.65876 - 04	34	6	-1.28068 - 18	7	-5.84103 - 18
-6	-34	5.93250 - 05	-33	9.93781 - 05	35	7	-1.30331 - 18	8	-5.90238 - 18
-5	-33	2.21742 - 05	-32	3.71645 - 05	36	8	-1.31700 - 18	9	-5.93955 - 18
-4	-32	8.29253 - 06	-31	1.39062 - 05	37	9	-1.32529 - 18	10	-5.96209 - 18
-3	-31	3.10290 - 06	-30	5.20656 - 06	38	10	-1.33032 - 18	11	-5.97575 - 18
-2	-30	1.16174 - 06	-29	1.95061 - 06	39	11	-1.33337 - 18	12	-5.98404 - 18
-1	-29	4.35240 - 07	-28	7.31293 - 07	40	12	-1.33522 - 18	13	-5.98907 - 18
0	-28	1.63173 - 07	-27	2.74369 - 07					

Table 8
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.96 \cdot 10^{+11}$		$\gamma = 7.20 \cdot 10^{+10}$		u_s	$\gamma = 1.96 \cdot 10^{+11}$		$\gamma = 7.20 \cdot 10^{+10}$	
	Y	$u_B = 26$	Y	$u_B = 25$		Y	$u_B = 26$	Y	$u_B = 25$
-40	-66	9.63713 +08	-65	9.66383 +08	1	-25	1.73519 -07	-24	2.92537 -07
-39	-65	5.81934 +08	-64	5.84594 +08	2	-24	6.52738 -08	-23	1.10160 -07
-38	-64	3.50391 +08	-63	3.53033 +08	3	-23	2.45801 -08	-22	4.15308 -08
-37	-63	2.09981 +08	-62	2.12595 +08	4	-22	9.26677 -09	-21	1.56771 -08
-36	-62	1.24863 +08	-61	1.27431 +08	5	-21	3.49803 -09	-20	5.92615 -09
-35	-61	7.33093 +07	-60	7.58032 +07	6	-20	1.32230 -09	-19	2.24369 -09
-34	-60	4.21574 +07	-59	4.45319 +07	7	-19	5.00636 -10	-18	8.50987 -10
-33	-59	2.34484 +07	-58	2.56335 +07	8	-18	1.89881 -10	-17	3.23409 -10
-32	-58	1.23849 +07	-57	1.42799 +07	9	-17	7.21623 -11	-16	1.23190 -10
-31	-57	6.07494 +06	-56	7.56034 +06	10	-16	2.74874 -11	-15	4.70486 -11
-30	-56	2.72412 +06	-55	3.72058 +06	11	-15	1.04979 -11	-14	1.80242 -11
-29	-55	1.12403 +06	-54	1.67449 +06	12	-14	4.02175 -12	-13	6.93030 -12
-28	-54	4.38539 +05	-53	6.93044 +05	13	-13	1.54636 -12	-12	2.67638 -12
-27	-53	1.66267 +05	-52	2.70919 +05	14	-12	5.97182 -13	-11	1.03911 -12
-26	-52	6.22711 +04	-51	1.02833 +05	15	-11	2.31858 -13	-10	4.06124 -13
-25	-51	2.32116 +04	-50	3.85410 +04	16	-10	9.06186 -14	-9	1.60058 -13
-24	-50	8.63756 +03	-49	1.43740 +04	17	-9	3.57138 -14	-8	6.37525 -14
-23	-49	3.21262 +03	-48	5.35154 +03	18	-8	1.42251 -14	-7	2.57346 -14
-22	-48	1.19483 +03	-47	1.99139 +03	19	-7	5.74218 -15	-6	1.05586 -14
-21	-47	4.44444 +02	-46	7.41003 +02	20	-6	2.35595 -15	-5	4.41097 -15
-20	-46	1.65354 +02	-45	2.75771 +02	21	-5	9.84221 -16	-4	1.87103 -15
-19	-45	6.15350 +01	-44	1.02654 +02	22	-4	4.17485 -16	-3	7.93528 -16
-18	-44	2.29057 +01	-43	3.82231 +01	23	-3	1.77060 -16	-2	3.20153 -16
-17	-43	8.52878 +00	-42	1.42364 +01	24	-2	7.14358 -17	-1	1.02760 -16
-16	-42	3.17658 +00	-41	5.30408 +00	25	-1	2.29288 -17	0	0.00000 -00
-15	-41	1.18350 -00	-40	1.97680 +00	26	0	0.00000 -00	1	-5.13907 -17
-14	-40	4.41083 -01	-39	7.36997 -01	27	1	-1.14668 -17	2	-8.04234 -17
-13	-39	1.64446 -01	-38	2.74870 -01	28	2	-1.79448 -17	3	-9.67746 -17
-12	-38	6.13319 -02	-37	1.02555 -01	29	3	-2.15933 -17	4	-1.06275 -16
-11	-37	2.28832 -02	-36	3.82796 -02	30	4	-2.37132 -17	5	-1.11907 -16
-10	-36	8.54134 -03	-35	1.42943 -02	31	5	-2.49698 -17	6	-1.15283 -16
-9	-35	3.18950 -03	-34	5.34026 -03	32	6	-2.57232 -17	7	-1.17320 -16
-8	-34	1.19157 -03	-33	1.99606 -03	33	7	-2.61777 -17	8	-1.18552 -16
-6	-33	4.45381 -04	-32	7.46470 -04	34	8	-2.64526 -17	9	-1.19299 -16
-6	-32	1.66560 -04	-31	2.79314 -04	35	9	-2.66192 -17	10	-1.19751 -16
-5	-31	6.23235 -05	-30	1.04576 -04	36	10	-2.67202 -17	11	-1.20026 -16
-4	-30	2.33342 -05	-29	3.91791 -05	37	11	-2.67814 -17	12	-1.20192 -16
-3	-29	8.74204 -06	-28	1.46884 -05	38	12	-2.68186 -17	13	-1.20293 -16
-2	-28	3.27743 -06	-27	5.51086 -06	39	13	-2.68411 -17	14	-1.20354 -16
-1	-27	1.22963 -06	-26	2.06925 -06	40	14	-2.68548 -17	15	-1.20392 -16
0	-26	4.61713 -07	-25	7.77660 -07					

Table 9
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.65 \cdot 10^{+10}$		$\gamma = 9.74 \cdot 10^{+9}$		u_s	$\gamma = 2.65 \cdot 10^{+10}$		$\gamma = 9.74 \cdot 10^{+9}$	
	Y	$u_B = 24$	Y	$u_B = 23$		Y	$u_B = 24$	Y	$u_B = 23$
-40	-64	9.67979 +08	-63	9.68931 +08	1	-23	4.93705 -07	-22	8.34168 -07
-39	-63	5.86186 +08	-62	5.87137 +08	2	-22	1.86128 -07	-21	3.14883 -07
-38	-62	3.54619 +08	-61	3.55568 +08	3	-21	7.02599 -08	-20	1.19030 -07
-37	-61	2.14170 +08	-60	2.15115 +08	4	-20	2.65592 -08	-19	4.50658 -08
-36	-60	1.28990 +08	-59	1.29929 +08	5	-19	1.00555 -08	-18	1.70925 -08
-35	-59	7.73351 +07	-58	7.82642 +07	6	-18	3.81386 -09	-17	6.49584 -09
-34	-58	4.60202 +07	-57	4.69334 +07	7	-17	1.44942 -09	-16	2.47434 -09
-33	-57	2.70518 +07	-56	2.79395 +07	8	-16	5.52100 -10	-15	9.44997 -10
-32	-56	1.55870 +07	-55	1.64337 +07	9	-15	2.10857 -10	-14	3.62027 -10
-31	-55	8.69706 +06	-54	9.47859 +06	10	-14	8.07791 -11	-13	1.39198 -10
-30	-54	4.61582 +06	-53	5.29735 +06	11	-13	3.10594 -11	-12	5.37566 -11
-29	-53	2.27921 +06	-52	2.81853 +06	12	-12	1.19947 -11	-11	2.08712 -11
-28	-52	1.02970 +06	-51	1.39659 +06	13	-11	4.65700 -12	-10	8.15723 -12
-27	-51	4.27553 +05	-50	6.33467 +05	14	-10	1.82012 -12	-9	3.21485 -12
-26	-50	1.67486 +05	-49	2.63927 +05	15	-9	7.17331 -13	-8	1.28050 -12
-25	-49	6.36506 +04	-48	1.03621 +05	16	-8	2.85718 -13	-7	5.16894 -13
-24	-48	2.38743 +04	-47	3.94317 +04	17	-7	1.15334 -13	-6	2.12076 -13
-23	-47	8.90936 +03	-46	1.48027 +04	18	-6	4.73207 -14	-5	8.85967 -14
-22	-46	3.31877 +03	-45	5.52764 +03	19	-5	1.97685 -14	-4	3.75808 -14
-21	-45	1.23561 +03	-44	2.06028 +03	20	-4	8.38541 -15	-3	1.59384 -14
-20	-44	4.60024 +02	-43	7.67508 +02	21	-3	3.55634 -15	-2	6.43044 -15
-19	-43	1.71298 +02	-42	2.85914 +02	22	-2	1.43482 -15	-1	2.06399 -15
-18	-42	6.38024 +01	-41	1.06531 +02	23	-1	4.60538 -16	0	0.00000 -00
-17	-41	2.37711 +01	-40	3.97044 +01	24	0	0.00000 -00	1	-1.03221 -15
-16	-40	8.85938 +00	-39	1.48029 +01	25	1	-2.30317 -16	2	-1.61534 -15
-15	-39	3.30299 +00	-38	5.52091 +00	26	2	-3.60432 -16	3	-1.94377 -15
-14	-38	1.23188 +00	-37	2.05988 +00	27	3	-4.33713 -16	4	-2.13460 -15
-13	-37	4.59621 -01	-36	7.68866 -01	28	4	-4.76294 -16	5	-2.24771 -15
-12	-36	1.71557 -01	-35	2.87110 -01	29	5	-5.01532 -16	6	-2.31553 -15
-11	-35	6.40629 -02	-34	1.07262 -01	30	6	-5.16665 -16	7	-2.35644 -15
-10	-34	2.39334 -02	-33	4.00919 -02	31	7	-5.25793 -16	8	-2.38119 -15
-9	-33	8.94573 -03	-32	1.49932 -02	32	8	-5.31316 -16	9	-2.39618 -15
-8	-32	3.34544 -03	-31	5.61018 -03	33	9	-5.34662 -16	10	-2.40528 -15
-7	-31	1.25180 -03	-30	2.10047 -03	34	10	-5.36690 -16	11	-2.41079 -15
-6	-30	4.68680 -04	-29	7.86933 -04	35	11	-5.37920 -16	12	-2.41413 -15
-5	-29	1.75588 -04	-28	2.95024 -04	36	12	-5.38666 -16	13	-2.41616 -15
-4	-28	6.58289 -05	-27	1.10688 -04	37	13	-5.39119 -16	14	-2.41739 -15
-3	-27	2.46979 -05	-26	4.15621 -05	38	14	-5.39393 -16	15	-2.41814 -15
-2	-26	9.27376 -06	-25	1.56197 -05	39	15	-5.39559 -16	16	-2.41859 -15
-1	-25	3.48523 -06	-24	5.87576 -06	40	16	-5.39660 -16	17	-2.41886 -15
0	-24	1.31106 -06	-23	2.21263 -06					

Table 10
 $G(u_s, u_B)$ Function

u_s	$\gamma = 3.58 \cdot 10^{+9}$		$\gamma = 1.32 \cdot 10^{+9}$		u_s	$\gamma = 3.58 \cdot 10^{+9}$		$\gamma = 1.32 \cdot 10^{+9}$	
	Y	$u_B = 22$	Y	$u_B = 21$		Y	$u_B = 22$	Y	$u_B = 21$
-40	-62	9.69499 +08	-61	9.69837 +08	1	-21	1.41120 -06	-20	2.39078 -06
-39	-61	5.87704 +08	-60	5.88041 +08	2	-20	5.33455 -07	-19	9.05171 -07
-38	-60	3.56134 +08	-59	3.56471 +08	3	-19	2.01971 -07	-18	3.43312 -07
-37	-59	2.15680 +08	-58	2.16017 +08	4	-18	7.66034 -08	-17	1.30472 -07
-36	-58	1.30491 +08	-57	1.30827 +08	5	-17	2.91123 -08	-16	4.96984 -08
-35	-57	7.88232 +07	-56	7.91578 +07	6	-16	1.10892 -08	-15	1.89807 -08
-34	-56	4.74867 +07	-55	4.78193 +07	7	-15	4.23518 -09	-14	7.27151 -09
-33	-55	2.84835 +07	-54	2.88128 +07	8	-14	1.62249 -09	-13	2.79588 -09
-32	-54	1.69628 +07	-53	1.72866 +07	9	-13	6.23846 -10	-12	1.07973 -09
-31	-53	9.98366 +06	-52	1.02987 +07	10	-12	2.40920 -10	-11	4.19209 -10
-30	-52	5.76431 +06	-51	6.06540 +06	11	-11	9.35383 -11	-10	1.63842 -10
-29	-51	3.22690 +06	-50	3.50572 +06	12	-10	3.65581 -11	-9	6.45731 -11
-28	-50	1.72134 +06	-49	1.96588 +06	13	-9	1.44080 -11	-8	2.57196 -11
-27	-49	8.56003 +05	-48	1.05143 +06	14	-8	5.73881 -12	-7	1.03821 -11
-26	-48	3.89881 +05	-47	5.24816 +05	15	-7	2.31656 -12	-6	4.25967 -12
-25	-47	1.63028 +05	-46	2.40076 +05	16	-6	9.50461 -13	-5	1.77951 -12
-24	-46	6.41616 +04	-45	1.00774 +05	17	-5	3.97063 -13	-4	7.54830 -13
-23	-45	2.44510 +04	-44	3.97642 +04	18	-4	1.68425 -13	-3	3.20132 -13
-22	-44	9.18741 +03	-43	1.51772 +04	19	-3	7.14311 -14	-2	1.29159 -13
-21	-43	3.43321 +03	-42	5.70858 +03	20	-2	2.88192 -14	-1	4.14563 -14
-20	-42	1.28046 +03	-41	2.13489 +03	21	-1	9.25016 -15	0	0.00000 -00
-19	-41	4.77309 +02	-40	7.96803 +02	22	0	0.00000 -00	1	-2.07325 -14
-18	-40	1.77924 +02	-39	2.97228 +02	23	1	-4.62604 -15	2	-3.24451 -14
-17	-39	6.63394 +01	-38	1.10876 +02	24	2	-7.23948 -15	3	-3.90416 -14
-16	-38	2.47426 +01	-37	4.13719 +01	25	3	-8.71137 -15	4	-4.28746 -14
-15	-37	9.23169 +00	-36	1.54428 +01	26	4	-9.56662 -15	5	-4.51465 -14
-14	-36	3.44581 +00	-35	5.76672 +00	27	5	-1.00735 -14	6	-4.65087 -14
-13	-35	1.28673 +00	-34	2.15441 +00	28	6	-1.03775 -14	7	-4.73304 -14
-12	-34	4.80715 -01	-33	8.05268 -01	29	7	-1.05608 -14	8	-4.78275 -14
-11	-33	1.79679 -01	-32	3.01147 -01	30	8	-1.06717 -14	9	-4.81287 -14
-10	-32	6.71951 -02	-31	1.12683 -01	31	9	-1.07389 -14	10	-4.83113 -14
-9	-31	2.51431 -02	-30	4.21892 -02	32	10	-1.07797 -14	11	-4.84220 -14
-8	-30	9.41369 -03	-29	1.58059 -02	33	11	-1.08044 -14	12	-4.84892 -14
-7	-29	3.52679 -03	-28	5.92573 -03	34	12	-1.08194 -14	13	-4.85299 -14
-6	-28	1.32221 -03	-27	2.22324 -03	35	13	-1.08284 -14	14	-4.85546 -14
-5	-27	4.96071 -04	-26	8.34797 -04	36	14	-1.08340 -14	15	-4.85696 -14
-4	-26	1.86268 -04	-25	3.13730 -04	37	15	-1.08373 -14	16	-4.85787 -14
-3	-25	7.00027 -05	-24	1.18017 -04	38	16	-1.08393 -14	17	-4.85842 -14
-2	-24	2.63333 -05	-23	4.44419 -05	39	17	-1.08406 -14	18	-4.85875 -14
-1	-23	9.91633 -06	-22	1.67547 -05	40	18	-1.08413 -14	19	-4.85896 -14
0	-22	3.73848 -06	-21	6.32459 -06					

Table 11
 $G(u_s, u_B)$ Function

u_s	$\gamma = 4.85 \cdot 10^{+8}$		$\gamma = 1.78 \cdot 10^{+8}$		u_s	$\gamma = 4.85 \cdot 10^{+8}$		$\gamma = 1.78 \cdot 10^{+8}$	
	Y	$u_B = 20$	Y	$u_B = 19$		Y	$u_B = 20$	Y	$u_B = 19$
-40	-60	9.70037 +08	-59	9.70157 +08	1	-19	4.05669 -06	-18	6.89562 -06
-39	-59	5.88242 +08	-58	5.88361 +08	2	-18	1.53862 -06	-17	2.62061 -06
-38	-58	3.56672 +08	-57	3.56791 +08	3	-17	5.84737 -07	-16	9.98220 -07
-37	-57	2.16217 +08	-56	2.16336 +08	4	-16	2.22733 -07	-15	3.81239 -07
-36	-56	1.31027 +08	-55	1.31146 +08	5	-15	8.50659 -08	-14	1.46052 -07
-35	-55	7.93575 +07	-54	7.94764 +07	6	-14	3.25886 -08	-13	5.61568 -08
-34	-54	4.80183 +07	-53	4.81369 +07	7	-13	1.25302 -08	-12	2.16869 -08
-33	-53	2.90105 +07	-52	2.91287 +07	8	-12	4.83901 -09	-11	8.42005 -09
-32	-52	1.74824 +07	-51	1.75999 +07	9	-11	1.87876 -09	-10	3.29086 -09
-31	-51	1.04914 +07	-50	1.06077 +07	10	-10	7.34290 -10	-9	1.29696 -09
-30	-50	6.25293 +06	-49	6.36742 +06	11	-9	2.89392 -10	-8	5.16591 -10
-29	-49	3.68507 +06	-48	3.79659 +06	12	-8	1.15267 -10	-7	2.08530 -10
-28	-48	2.13224 +06	-47	2.23898 +06	13	-7	4.65293 -11	-6	8.55578 -11
-27	-47	1.19777 +06	-46	1.29695 +06	14	-6	1.90905 -11	-5	3.57424 -11
-26	-46	6.42364 +05	-45	7.29857 +05	15	-5	7.97522 -12	-4	1.51611 -11
-25	-45	3.21866 +05	-44	3.92522 +05	16	-4	3.38291 -12	-3	6.43002 -12
-24	-44	1.47908 +05	-43	1.97465 +05	17	-3	1.43473 -12	-2	2.59422 -12
-23	-43	6.23405 +04	-42	9.11761 +04	18	-2	5.78850 -13	-1	8.32672 -13
-22	-42	2.46680 +04	-41	3.85970 +04	19	-1	1.85794 -13	0	0.00000 -00
-21	-41	9.43142 +03	-40	1.53194 +04	20	0	0.00000 -00	1	-4.16423 -13
-20	-40	3.55137 +03	-39	5.86813 +03	21	1	-9.29166 -14	2	-6.51677 -13
-19	-39	1.32929 +03	-38	2.21235 +03	22	2	-1.45408 -13	3	-7.84173 -13
-18	-38	4.96521 +02	-37	8.28889 +02	23	3	-1.74972 -13	4	-8.61159 -13
-17	-37	1.85360 +02	-36	3.09881 +02	24	4	-1.92150 -13	5	-9.06792 -13
-16	-36	6.92020 +01	-35	1.15785 +02	25	5	-2.02332 -13	6	-9.34153 -13
-15	-35	2.58435 +01	-34	4.32665 +01	26	6	-2.08437 -13	7	-9.50656 -13
-14	-34	9.65524 +00	-33	1.61734 +01	27	7	-2.12120 -13	8	-9.60642 -13
-13	-33	3.60894 +00	-32	6.04858 +00	28	8	-2.14348 -13	9	-9.66691 -13
-12	-32	1.34964 +00	-31	2.26329 +00	29	9	-2.15698 -13	10	-9.70359 -13
-11	-31	5.05012 -01	-30	8.47390 -01	30	10	-2.16516 -13	11	-9.72583 -13
-10	-30	1.89078 -01	-29	3.17471 -01	31	11	-2.17012 -13	12	-9.73931 -13
-9	-29	7.08375 -02	-28	1.19021 -01	32	12	-2.17313 -13	13	-9.74750 -13
-8	-28	2.65572 -02	-27	4.46549 -02	33	13	-2.17496 -13	14	-9.75246 -13
-7	-27	9.96385 -03	-26	1.67673 -02	34	14	-2.17606 -13	15	-9.75547 -13
-6	-26	3.74130 -03	-25	6.30144 -03	35	15	-2.17674 -13	16	-9.75729 -13
-5	-25	1.40604 -03	-24	2.37045 -03	36	16	-2.17714 -13	17	-9.75840 -13
-4	-24	5.28919 -04	-23	8.92640 -04	37	17	-2.17739 -13	18	-9.75907 -13
-3	-23	1.99175 -04	-22	3.36527 -04	38	18	-2.17754 -13	19	-9.75948 -13
-2	-22	7.50894 -05	-21	1.27032 -04	39	19	-2.17763 -13	20	-9.75972 -13
-1	-21	2.83448 -05	-20	4.80201 -05	40	20	-2.17769 -13	21	-9.75987 -13
0	-20	1.07147 -05	-19	1.81808 -05					

Table 12
 $G(u_s, u_B)$ Function

u_s	$\gamma = 6.57 \cdot 10^{+7}$		$\gamma = 2.41 \cdot 10^{+7}$		u_s	$\gamma = 6.57 \cdot 10^{+7}$		$\gamma = 2.41 \cdot 10^{+7}$	
	Y	$u_B = 18$	Y	$u_B = 17$		Y	$u_B = 18$	Y	$u_B = 17$
-40	-58	9.70227 +08	-57	9.70269 +08	1	-17	1.17447 -05	-16	2.00497 -05
-39	-57	5.88432 +08	-56	5.88474 +08	2	-16	4.47371 -06	-15	7.65739 -06
-38	-56	3.56862 +08	-55	3.56904 +08	3	-15	1.70859 -06	-14	2.93353 -06
-37	-55	2.16407 +08	-54	2.16449 +08	4	-14	6.54560 -07	-13	1.12794 -06
-36	-54	1.31217 +08	-53	1.31259 +08	5	-13	2.51677 -07	-12	4.35594 -07
-35	-53	7.95471 +07	-52	7.95890 +07	6	-12	9.71942 -08	-11	1.69121 -07
-34	-52	4.82075 +07	-51	4.82493 +07	7	-11	3.77360 -08	-10	6.60987 -08
-33	-51	2.91991 +07	-50	2.92409 +07	8	-10	1.47486 -08	-9	2.60502 -08
-32	-50	1.76700 +07	-49	1.77117 +07	9	-9	5.81260 -09	-8	1.03760 -08
-31	-49	1.06774 +07	-48	1.07190 +07	10	-8	2.31520 -09	-7	4.18844 -09
-30	-48	6.43648 +06	-47	6.47781 +06	11	-7	9.34567 -10	-6	1.71847 -09
-29	-47	3.86456 +06	-46	3.90551 +06	12	-6	3.83443 -10	-5	7.17907 -10
-28	-46	2.30523 +06	-45	2.34555 +06	13	-5	1.60186 -10	-4	3.04520 -10
-27	-45	1.36042 +06	-44	1.39974 +06	14	-4	6.79477 -11	-3	1.29150 -10
-26	-44	7.88943 +05	-43	8.26650 +05	15	-3	2.88173 -11	-2	5.21064 -11
-25	-43	4.44802 +05	-42	4.79956 +05	16	-2	1.16265 -11	-1	1.67246 -11
-24	-42	2.39904 +05	-41	2.71112 +05	17	-1	3.73178 -12	0	0.00000 -00
-23	-41	1.21189 +05	-40	1.46660 +05	18	0	0.00000 -00	1	-8.36409 -12
-22	-40	5.62382 +04	-39	7.44057 +04	19	1	-1.86628 -12	2	-1.30893 -11
-21	-39	2.39184 +04	-38	3.47111 +04	20	2	-2.92061 -12	3	-1.57505 -11
-20	-38	9.52501 +03	-37	1.48369 +04	21	3	-3.51442 -12	4	-1.72968 -11
-19	-37	3.65611 +03	-36	5.93001 +03	22	4	-3.85945 -12	5	-1.82134 -11
-18	-36	1.38028 +03	-35	2.28142 +03	23	5	-4.06396 -12	6	-1.87629 -11
-17	-35	5.17700 +02	-34	8.62618 +02	24	6	-4.18658 -12	7	-1.90944 -11
-16	-34	1.93734 +02	-33	3.23933 +02	25	7	-4.26054 -12	8	-1.92950 -11
-15	-33	7.24596 +01	-32	1.21358 +02	26	8	-4.30529 -12	9	-1.94165 -11
-14	-32	2.71044 +01	-31	4.54407 +01	27	9	-4.33241 -12	10	-1.94901 -11
-13	-31	1.01428 +01	-30	1.70176 +01	28	10	-4.34884 -12	11	-1.95348 -11
-12	-30	3.79767 +00	-29	6.37620 +00	29	11	-4.35881 -12	12	-1.95619 -11
-11	-29	1.42279 +00	-28	2.39055 +00	30	12	-4.36486 -12	13	-1.95783 -11
-10	-28	5.33415 -01	-27	8.96910 -01	31	13	-4.36852 -12	14	-1.95883 -11
-9	-27	2.00129 -01	-26	3.36780 -01	32	14	-4.37075 -12	15	-1.95943 -11
-8	-26	7.51460 -02	-25	1.26567 -01	33	15	-4.37209 -12	16	-1.95980 -11
-7	-25	2.82411 -02	-24	4.76118 -02	34	16	-4.37291 -12	17	-1.96002 -11
-6	-24	1.06236 -02	-23	1.79291 -02	35	17	-4.37341 -12	18	-1.96016 -11
-5	-23	4.00053 -03	-22	6.75933 -03	36	18	-4.37371 -12	19	-1.96024 -11
-4	-22	1.50821 -03	-21	2.55152 -03	37	19	-4.37389 -12	20	-1.96029 -11
-3	-21	5.69321 -04	-20	9.64510 -04	38	20	-4.37400 -12	21	-1.96032 -11
-2	-20	2.15211 -04	-19	3.65172 -04	39	21	-4.37407 -12	22	-1.96034 -11
-1	-19	8.14809 -05	-18	1.38502 -04	40	22	-4.37411 -12	23	-1.96035 -11
0	-18	3.09040 -05	-17	5.26364 -05					

Table 13
 $G(u_s, u_B)$ Function

u_s	$\gamma = 8.89 \cdot 10^{+6}$		$\gamma = 3.27 \cdot 10^{+6}$		u_s	$\gamma = 8.89 \cdot 10^{+6}$		$\gamma = 3.27 \cdot 10^{+6}$	
	Y	$u_B = 16$	Y	$u_B = 15$		Y	$u_B = 16$	Y	$u_B = 15$
-40	-56	9.70294 +08	-55	9.70309 +08	1	-15	3.43180 -05	-14	5.89216 -05
-39	-55	5.88499 +08	-54	5.88514 +08	2	-14	1.31472 -05	-13	2.26552 -05
-38	-54	3.56928 +08	-53	3.56943 +08	3	-13	5.05507 -06	-12	8.74914 -06
-37	-53	2.16474 +08	-52	2.16488 +08	4	-12	1.95219 -06	-11	3.39689 -06
-36	-52	1.31284 +08	-51	1.31298 +08	5	-11	7.57949 -07	-10	1.32762 -06
-35	-51	7.96138 +07	-50	7.96285 +07	6	-10	2.96234 -07	-9	5.23233 -07
-34	-50	4.82741 +07	-49	4.82888 +07	7	-9	1.16749 -07	-8	2.08408 -07
-33	-49	2.92657 +07	-48	2.92804 +07	8	-8	4.65021 -08	-7	8.41270 -08
-32	-48	1.77365 +07	-47	1.77512 +07	9	-7	1.87712 -08	-6	3.45164 -08
-31	-47	1.07437 +07	-46	1.07583 +07	10	-6	7.70167 -09	-5	1.44195 -08
-30	-46	6.50243 +06	-45	6.51704 +06	11	-5	3.21743 -09	-4	6.11645 -09
-29	-45	3.92999 +06	-44	3.94455 +06	12	-4	1.36476 -09	-3	2.59405 -09
-28	-44	2.36981 +06	-43	2.38428 +06	13	-3	5.78812 -10	-2	1.04658 -09
-27	-43	1.42363 +06	-42	1.43798 +06	14	-2	2.33524 -10	-1	3.35924 -10
-26	-42	8.49958 +05	-41	8.64096 +05	15	-1	7.49548 -11	0	0.00000 -00
-25	-41	5.02332 +05	-40	5.16133 +05	16	0	0.00000 -00	1	-1.67997 -10
-24	-40	2.92009 +05	-39	3.05271 +05	17	1	-3.74852 -11	2	-2.62905 -10
-23	-39	1.65270 +05	-38	1.77678 +05	18	2	-5.86621 -11	3	-3.16358 -10
-22	-38	8.96802 +04	-37	1.00765 +05	19	3	-7.05890 -11	4	-3.47416 -10
-21	-37	4.57020 +04	-36	5.48528 +04	20	4	-7.75191 -11	5	-3.65826 -10
-20	-36	2.14396 +04	-35	2.80845 +04	21	5	-8.16268 -11	6	-3.76854 -10
-19	-35	9.21372 +03	-34	1.32528 +04	22	6	-8.40897 -11	7	-3.83522 -10
-18	-34	3.69723 +03	-33	5.72868 +03	23	7	-8.55754 -11	8	-3.87550 -10
-17	-33	1.42605 +03	-32	2.30890 +03	24	8	-8.64742 -11	9	-3.89991 -10
-16	-32	5.40131 +02	-31	8.93124 +02	25	9	-8.70188 -11	10	-3.91470 -10
-15	-31	2.03110 +02	-30	3.38940 +02	26	10	-8.73489 -11	11	-3.92368 -10
-14	-30	7.61903 +01	-29	1.27655 +02	27	11	-8.75491 -11	12	-3.92912 -10
-13	-29	2.85650 +01	-28	4.79561 +01	28	12	-8.76705 -11	13	-3.93242 -10
-12	-28	1.07121 +01	-27	1.80064 +01	29	13	-8.77442 -11	14	-3.93442 -10
-11	-27	4.01944 +00	-26	6.76318 +00	30	14	-8.77888 -11	15	-3.93563 -10
-10	-26	1.50931 +00	-25	2.54200 +00	31	15	-8.78159 -11	16	-3.93637 -10
-9	-25	5.67233 -01	-24	9.56282 -01	32	16	-8.78323 -11	17	-3.93682 -10
-8	-24	2.13380 -01	-23	3.60113 -01	33	17	-8.78423 -11	18	-3.93709 -10
-7	-23	8.03528 -02	-22	1.35764 -01	34	18	-8.78483 -11	19	-3.93725 -10
-6	-22	3.02932 -02	-21	5.12486 -02	35	19	-8.78520 -11	20	-3.93735 -10
-5	-21	1.14351 -02	-20	1.93727 -02	36	20	-8.78542 -11	21	-3.93741 -10
-4	-20	4.32263 -03	-19	7.33468 -03	37	21	-8.78556 -11	22	-3.93745 -10
-3	-19	1.63658 -03	-18	2.78189 -03	38	22	-8.78564 -11	23	-3.93747 -10
-2	-18	6.20724 -04	-17	1.05723 -03	39	23	-8.78569 -11	24	-3.93748 -10
-1	-17	2.35900 -04	-16	4.02710 -04	40	24	-8.78572 -11	25	-3.93749 -10
0	-16	8.98569 -05	-15	1.53802 -04					

Table 14
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.20 \cdot 10^{+6}$		$\gamma = 4.42 \cdot 10^{+5}$		u_s	$\gamma = 1.20 \cdot 10^{+6}$		$\gamma = 4.42 \cdot 10^{+5}$	
	Y	$u_B = 14$	Y	$u_B = 13$		Y	$u_B = 14$	Y	$u_B = 13$
-40	-54	9.70318 +08	-53	9.70323 +08	1	-13	1.01533 -04	-12	1.75731 -04
-39	-53	5.88522 +08	-52	5.88527 +08	2	-12	3.92109 -05	-11	6.82284 -05
-38	-52	3.56952 +08	-51	3.56957 +08	3	-11	1.52238 -05	-10	2.66661 -05
-37	-51	2.16497 +08	-50	2.16502 +08	4	-10	5.95002 -06	-9	1.05094 -05
-36	-50	1.31307 +08	-49	1.31312 +08	5	-9	2.34497 -06	-8	4.18598 -06
-35	-49	7.96372 +07	-48	7.96423 +07	6	-8	9.34020 -07	-7	1.68973 -06
-34	-48	4.82975 +07	-47	4.83026 +07	7	-7	3.77031 -07	-6	6.93282 -07
-33	-47	2.92890 +07	-46	2.92941 +07	8	-6	1.54692 -07	-5	2.89624 -07
-32	-46	1.77598 +07	-45	1.77649 +07	9	-5	6.46239 -08	-4	1.22852 -07
-31	-45	1.07670 +07	-44	1.07721 +07	10	-4	2.74120 -08	-3	5.21030 -08
-30	-44	6.52568 +06	-43	6.53078 +06	11	-3	1.16257 -08	-2	2.10212 -08
-29	-43	3.95317 +06	-42	3.95827 +06	12	-2	4.69047 -09	-1	6.74721 -09
-28	-42	2.39288 +06	-41	2.39797 +06	13	-1	1.50550 -09	0	0.00000 -00
-27	-41	1.44653 +06	-40	1.45160 +06	14	0	0.00000 -00	1	-3.37431 -09
-26	-40	8.72572 +05	-39	8.77614 +05	15	1	-7.52911 -10	2	-5.28059 -09
-25	-39	5.24487 +05	-38	5.29486 +05	16	2	-1.17826 -09	3	-6.35422 -09
-24	-38	3.13431 +05	-37	3.18360 +05	17	3	-1.41781 -09	4	-6.97805 -09
-23	-37	1.85527 +05	-36	1.90345 +05	18	4	-1.55701 -09	5	-7.34781 -09
-22	-36	1.08123 +05	-35	1.12762 +05	19	5	-1.63952 -09	6	-7.56952 -09
-21	-35	6.14479 +04	-34	6.58042 +04	20	6	-1.68898 -09	7	-7.70325 -09
-20	-34	3.35607 +04	-33	3.74790 +04	21	7	-1.71882 -09	8	-7.78416 -09
-19	-33	1.72672 +04	-32	2.05404 +04	22	8	-1.73688 -09	9	-7.83318 -09
-18	-32	8.19937 +03	-31	1.06225 +04	23	9	-1.74781 -09	10	-7.86290 -09
-17	-31	3.56667 +03	-30	5.07776 +03	24	10	-1.75445 -09	11	-7.88092 -09
-16	-30	1.44455 +03	-29	2.22399 +03	25	11	-1.75847 -09	12	-7.89185 -09
-15	-29	5.60591 +02	-28	9.05666 +02	26	12	-1.76091 -09	13	-7.89848 -09
-14	-28	2.13221 +02	-27	3.52764 +02	27	13	-1.76238 -09	14	-7.90250 -09
-13	-27	8.04517 +01	-26	1.34521 +02	28	14	-1.76328 -09	15	-7.90494 -09
-12	-26	3.02747 +01	-25	5.08549 +01	29	15	-1.76383 -09	16	-7.90641 -09
-11	-25	1.13873 +01	-24	1.91795 +01	30	16	-1.76416 -09	17	-7.90731 -09
-10	-24	4.28501 +00	-23	7.22900 +00	31	17	-1.76436 -09	18	-7.90786 -09
-9	-23	1.61380 +00	-22	2.72631 +00	32	18	-1.76448 -09	19	-7.90819 -09
-8	-22	6.08438 -01	-21	1.02927 +00	33	19	-1.76455 -09	20	-7.90839 -09
-7	-21	2.29678 -01	-20	3.89098 -01	34	20	-1.76460 -09	21	-7.90851 -09
-6	-20	8.68221 -02	-19	1.47319 -01	35	21	-1.76462 -09	22	-7.90858 -09
-5	-19	3.28717 -02	-18	5.58755 -02	36	22	-1.76464 -09	23	-7.90863 -09
-4	-18	1.24675 -02	-17	2.12350 -02	37	23	-1.76465 -09	24	-7.90865 -09
-3	-17	4.73817 -03	-16	8.08865 -03	38	24	-1.76466 -09	25	-7.90867 -09
-2	-16	1.80482 -03	-15	3.08921 -03	39	25	-1.76466 -09	26	-7.90868 -09
-1	-15	6.89296 -04	-14	1.18347 -03	40	26	-1.76466 -09	27	-7.90869 -09
0	-14	2.64068 -04	-13	4.55043 -04					

Table 15
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.63 \cdot 10^{+5}$		$\gamma = 5.99 \cdot 10^{+4}$		u_s	$\gamma = 1.63 \cdot 10^{+5}$		$\gamma = 5.99 \cdot 10^{+4}$	
	Y	$u_B = 12$	Y	$u_B = 11$		Y	$u_B = 12$	Y	$u_B = 11$
-40	-52	9.70326 +08	-51	9.70328 +08	1	-11	3.05778 -04	-10	5.35603 -04
-39	-51	5.88530 +08	-50	5.88532 +08	2	-10	1.19509 -04	-9	2.11087 -04
-38	-50	3.56960 +08	-49	3.56962 +08	3	-9	4.70999 -05	-8	8.40778 -05
-37	-49	2.16505 +08	-48	2.16507 +08	4	-8	1.87602 -05	-7	3.39392 -05
-36	-48	1.31315 +08	-47	1.31317 +08	5	-7	7.57287 -06	-6	1.39249 -05
-35	-47	7.96453 +07	-46	7.96471 +07	6	-6	3.10707 -06	-5	5.81726 -06
-34	-46	4.83056 +07	-45	4.83074 +07	7	-5	1.29800 -06	-4	2.46755 -06
-33	-45	2.92972 +07	-44	2.92989 +07	8	-4	5.50585 -07	-3	1.04651 -06
-32	-44	1.77679 +07	-43	1.77697 +07	9	-3	2.33509 -07	-2	4.22222 -07
-31	-43	1.07751 +07	-42	1.07769 +07	10	-2	9.42106 -08	-1	1.35521 -07
-30	-42	6.53379 +06	-41	6.53556 +06	11	-1	3.02389 -08	0	0.00000 -00
-29	-41	3.96128 +06	-40	3.96304 +06	12	0	0.00000 -00	1	-6.77749 -08
-28	-40	2.40097 +06	-39	2.40273 +06	13	1	-1.51226 -08	2	-1.06063 -07
-27	-39	1.45460 +06	-38	1.45636 +06	14	2	-2.36660 -08	3	-1.27627 -07
-26	-38	8.80599 +05	-37	8.82357 +05	15	3	-2.84776 -08	4	-1.40157 -07
-25	-37	5.32455 +05	-36	5.34208 +05	16	4	-3.12734 -08	5	-1.47584 -07
-24	-36	3.21304 +05	-35	3.23048 +05	17	5	-3.29306 -08	6	-1.52037 -07
-23	-35	1.93248 +05	-34	1.94978 +05	18	6	-3.39242 -08	7	-1.54724 -07
-22	-34	1.15601 +05	-33	1.17308 +05	19	7	-3.45235 -08	8	-1.56349 -07
-21	-33	6.85411 +04	-32	7.02113 +04	20	8	-3.48862 -08	9	-1.57333 -07
-20	-32	4.00541 +04	-31	4.16658 +04	21	9	-3.51058 -08	10	-1.57930 -07
-19	-31	2.28646 +04	-30	2.43840 +04	22	10	-3.52390 -08	11	-1.58292 -07
-18	-30	1.25761 +04	-29	1.39524 +04	23	11	-3.53198 -08	12	-1.58512 -07
-17	-29	6.53893 +03	-28	7.70319 +03	24	12	-3.53688 -08	13	-1.58645 -07
-16	-28	3.14800 +03	-27	4.02809 +03	25	13	-3.53985 -08	14	-1.58726 -07
-15	-27	1.38916 +03	-26	1.95402 +03	26	14	-3.54165 -08	15	-1.58775 -07
-14	-26	5.69172 +02	-25	8.69416 +02	27	15	-3.54274 -08	16	-1.58804 -07
-13	-25	2.22640 +02	-24	3.58696 +02	28	16	-3.54341 -08	17	-1.58822 -07
-12	-24	8.51583 +01	-23	1.41003 +02	29	17	-3.54381 -08	18	-1.58833 -07
-11	-23	3.22807 +01	-22	5.41269 +01	30	18	-3.54405 -08	19	-1.58840 -07
-10	-22	1.22013 +01	-21	2.05798 +01	31	19	-3.54420 -08	20	-1.58844 -07
-9	-21	4.61036 +00	-20	7.80146 +00	32	20	-3.54429 -08	21	-1.58846 -07
-8	-20	1.74345 +00	-19	2.95695 +00	33	21	-3.54434 -08	22	-1.58848 -07
-7	-19	6.60184 -01	-18	1.12198 +00	34	22	-3.54438 -08	23	-1.58849 -07
-6	-18	2.50408 -01	-17	4.26471 -01	35	23	-3.54440 -08	24	-1.58849 -07
-5	-17	9.51674 -02	-16	1.62458 -01	36	24	-3.54441 -08	25	-1.58850 -07
-4	-16	3.62506 -02	-15	6.20474 -02	37	25	-3.54442 -08	26	-1.58850 -07
-3	-15	1.38448 -02	-14	2.37705 -02	38	26	-3.54442 -08	27	-1.58850 -07
-2	-14	5.30395 -03	-13	9.13977 -03	39	27	-3.54442 -08	28	-1.58850 -07
-1	-13	2.03936 -03	-12	3.52965 -03	40	28	-3.54443 -08	29	-1.58850 -07
0	-12	7.87572 -04	-11	1.37040 -03					

Table 16
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.20 \cdot 10^{+4}$			$\gamma = 8.10 \cdot 10^{+3}$			u_s	$\gamma = 2.20 \cdot 10^{+4}$			$\gamma = 8.10 \cdot 10^{+3}$		
	Y	$u_B = 10$	Y	$u_B = 9$	Y	$u_B = 10$		Y	$u_B = 10$	Y	$u_B = 9$		
-40	-50	9.70329 +08	-49	9.70329 +08	1	-9	9.46028 -04	-8	1.68874 -03				
-39	-49	5.88533 +08	-48	5.88534 +08	2	-8	3.76810 -04	-7	6.81688 -04				
-38	-48	3.56963 +08	-47	3.56963 +08	3	-7	1.52105 -04	-6	2.79689 -04				
-37	-47	2.16508 +08	-46	2.16509 +08	4	-6	6.24072 -05	-5	1.16842 -04				
-36	-46	1.31318 +08	-45	1.31319 +08	5	-5	2.60711 -05	-4	4.95621 -05				
-35	-45	7.96481 +07	-44	7.96487 +07	6	-4	1.10588 -05	-3	2.10198 -05				
-34	-44	4.83084 +07	-43	4.83090 +07	7	-3	4.69016 -06	-2	8.48057 -06				
-33	-43	2.93000 +07	-42	2.93006 +07	8	-2	1.89227 -06	-1	2.72202 -06				
-32	-42	1.77707 +07	-41	1.77713 +07	9	-1	6.07365 -07	0	0.00000 -00				
-31	-41	1.07779 +07	-40	1.07785 +07	10	0	0.00000 -00	1	-1.36129 -06				
-30	-40	6.53659 +06	-39	6.53720 +06	11	1	-3.03746 -07	2	-2.13034 -06				
-29	-39	3.96408 +06	-38	3.96468 +06	12	2	-4.75344 -07	3	-2.56347 -06				
-28	-38	2.40377 +06	-37	2.40437 +06	13	3	-5.71988 -07	4	-2.81514 -06				
-27	-37	1.45739 +06	-36	1.45800 +06	14	4	-6.28144 -07	5	-2.96432 -06				
-26	-36	8.83390 +05	-35	8.83995 +05	15	5	-6.61429 -07	6	-3.05376 -06				
-25	-35	5.35239 +05	-34	5.35843 +05	16	6	-6.81386 -07	7	-3.10771 -06				
-24	-34	3.24076 +05	-33	3.24679 +05	17	7	-6.93424 -07	8	-3.14035 -06				
-23	-33	1.96001 +05	-32	1.96602 +05	18	8	-7.00708 -07	9	-3.16013 -06				
-22	-32	1.18322 +05	-31	1.18920 +05	19	9	-7.05120 -07	10	-3.17212 -06				
-21	-31	7.12125 +04	-30	7.18058 +04	20	10	-7.07795 -07	11	-3.17939 -06				
-20	-30	4.26460 +04	-29	4.32318 +04	21	11	-7.09418 -07	12	-3.18380 -06				
-19	-29	2.53310 +04	-28	2.59049 +04	22	12	-7.10401 -07	13	-3.18647 -06				
-18	-28	1.48469 +04	-27	1.54020 +04	23	13	-7.10998 -07	14	-3.18809 -06				
-17	-27	8.51646 +03	-26	9.04185 +03	24	14	-7.11360 -07	15	-3.18908 -06				
-16	-26	4.72064 +03	-25	5.20010 +03	25	15	-7.11580 -07	16	-3.18967 -06				
-15	-25	2.48340 +03	-24	2.89450 +03	26	16	-7.11713 -07	17	-3.19003 -06				
-14	-24	1.21460 +03	-23	1.53252 +03	27	17	-7.11793 -07	18	-3.19025 -06				
-13	-23	5.45370 +02	-22	7.56218 +02	28	18	-7.11842 -07	19	-3.19039 -06				
-12	-22	2.26792 +02	-21	3.43015 +02	29	19	-7.11872 -07	20	-3.19047 -06				
-11	-21	8.96724 +01	-20	1.43954 +02	30	20	-7.11890 -07	21	-3.19052 -06				
-10	-20	3.45716 +01	-19	5.73161 +01	31	21	-7.11901 -07	22	-3.19055 -06				
-9	-19	1.31934 +01	-18	2.22151 +01	32	22	-7.11908 -07	23	-3.19056 -06				
-8	-18	5.01966 +00	-17	8.51738 +00	33	23	-7.11912 -07	24	-3.19058 -06				
-7	-17	1.91001 +00	-16	3.25575 +00	34	24	-7.11914 -07	25	-3.19058 -06				
-6	-16	7.27892 -01	-15	1.24515 +00	35	25	-7.11916 -07	26	-3.19059 -06				
-5	-15	2.78048 -01	-14	4.77275 -01	36	26	-7.11917 -07	27	-3.19059 -06				
-4	-14	1.06527 -01	-13	1.83551 -01	37	27	-7.11917 -07	28	-3.19059 -06				
-3	-13	4.09609 -02	-12	7.08909 -02	38	28	-7.11917 -07	29	-3.19059 -06				
-2	-12	1.58187 -02	-11	2.75246 -02	39	29	-7.11918 -07	30	-3.19059 -06				
-1	-11	6.14170 -03	-10	1.07577 -02	40	30	-7.11918 -07	31	-3.19059 -06				
0	-10	2.40040 -03	-9	4.23978 -03									

Table 17
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.98 \cdot 10^{+3}$		$\gamma = 1.1 \cdot 10^{+3}$		u_s	$\gamma = 2.98 \cdot 10^{+3}$		$\gamma = 1.1 \cdot 10^{+3}$	
	Y	$u_B = 8$	Y	$u_B = 7$		Y	$u_B = 8$	Y	$u_B = 7$
-40	-48	9.70329 +08	-47	9.70330 +08	1	-7	3.05510 -03	-6	5.61762 -03
-39	-47	5.88534 +08	-46	5.88534 +08	2	-6	1.25348 -03	-5	2.34683 -03
-38	-46	3.56964 +08	-45	3.56964 +08	3	-5	5.23652 -04	-4	9.95479 -04
-37	-45	2.16509 +08	-44	2.16509 +08	4	-4	2.22122 -04	-3	4.22194 -04
-36	-44	1.31319 +08	-43	1.31319 +08	5	-3	9.42045 -05	-2	1.70336 -04
-35	-43	7.96490 +07	-42	7.96493 +07	6	-2	3.80072 -05	-1	5.46732 -05
-34	-42	4.83094 +07	-41	4.83096 +07	7	-1	1.21992 -05	0	0.00000 -00
-33	-41	2.93009 +07	-40	2.93011 +07	8	0	0.00000 -00	1	-2.73423 -05
-32	-40	1.77717 +07	-39	1.77719 +07	9	1	-6.10090 -06	2	-4.27891 -05
-31	-39	1.07789 +07	-38	1.07791 +07	10	2	-9.54754 -06	3	-5.14887 -05
-30	-38	6.53755 +06	-37	6.53776 +06	11	3	-1.14887 -05	4	-5.65437 -05
-29	-37	3.96504 +06	-36	3.96524 +06	12	4	-1.26166 -05	5	-5.95399 -05
-28	-36	2.40473 +06	-35	2.40493 +06	13	5	-1.32851 -05	6	-6.13364 -05
-27	-35	1.45835 +06	-34	1.45855 +06	14	6	-1.36860 -05	7	-6.24200 -05
-26	-34	8.84348 +05	-33	8.84552 +05	15	7	-1.39278 -05	8	-6.30757 -05
-25	-33	5.36195 +05	-32	5.36400 +05	16	8	-1.40741 -05	9	-6.34729 -05
-24	-32	3.25031 +05	-31	3.25235 +05	17	9	-1.41627 -05	10	-6.37137 -05
-23	-31	1.96953 +05	-30	1.97157 +05	18	10	-1.42164 -05	11	-6.38597 -05
-22	-30	1.19270 +05	-29	1.19474 +05	19	11	-1.42490 -05	12	-6.39483 -05
-21	-29	7.21544 +04	-28	7.23578 +04	20	12	-1.42688 -05	13	-6.40020 -05
-20	-28	4.35777 +04	-27	4.37803 +04	21	13	-1.42807 -05	14	-6.40346 -05
-19	-27	2.62466 +04	-26	2.64476 +04	22	14	-1.42880 -05	15	-6.40543 -05
-18	-26	1.57370 +04	-25	1.59356 +04	23	15	-1.42924 -05	16	-6.40663 -05
-17	-25	9.36622 +03	-24	9.56110 +03	24	16	-1.42951 -05	17	-6.40736 -05
-16	-24	5.50780 +03	-23	5.69673 +03	25	17	-1.42967 -05	18	-6.40780 -05
-15	-23	3.17639 +03	-22	3.35600 +03	26	18	-1.42977 -05	19	-6.40807 -05
-14	-22	1.77594 +03	-21	1.94116 +03	27	19	-1.42983 -05	20	-6.40823 -05
-13	-21	9.46785 +02	-20	1.09051 +03	28	20	-1.42987 -05	21	-6.40833 -05
-12	-20	4.71728 +02	-19	5.85705 +02	29	21	-1.42989 -05	22	-6.40839 -05
-11	-19	2.16430 +02	-18	2.94945 +02	30	22	-1.42990 -05	23	-5.40842 -05
-10	-18	9.18085 +01	-17	1.37091 +02	31	23	-1.42991 -05	24	-5.40845 -05
-9	-17	3.68655 +01	-16	5.89001 +01	32	24	-1.42991 -05	25	-6.40846 -05
-8	-16	1.43848 +01	-15	2.39031 +01	33	25	-1.42992 -05	26	-5.40847 -05
-7	-15	5.54856 +00	-14	9.40877 +00	34	26	-1.42992 -05	27	-6.40847 -05
-6	-14	2.13412 +00	-13	3.65885 +00	35	27	-1.42992 -05	28	-5.40848 -05
-5	-13	8.21868 -01	-12	1.41951 +00	36	28	-1.42992 -05	29	-6.40848 -05
-4	-12	3.17594 -01	-11	5.52157 -01	37	29	-1.42992 -05	30	-6.40848 -05
-3	-11	1.23338 -01	-10	2.15965 -01	38	30	-1.42992 -05	31	-6.40848 -05
-2	-10	4.82101 -02	-9	8.51403 -02	39	31	-1.42992 -05	32	-6.40848 -05
-1	-9	1.90009 -02	-8	3.39163 -02	40	32	-1.42992 -05	33	-6.40848 -05
0	-8	7.56835 -03	-7	1.36915 -02					

Table 18
 $G(u_s, u_B)$ Function

u_s	$\gamma = 4.03 \cdot 10^{+2}$		$\gamma = 1.48 \cdot 10^{+2}$		u_s	$\gamma = 4.03 \cdot 10^{+2}$		$\gamma = 1.48 \cdot 10^{+2}$	
	Y	$u_B = 6$	Y	$u_B = 5$		Y	$u_B = 6$	Y	$u_B = 5$
-40	-46	9.70330 +08	-45	9.70330 +08	1	-5	1.05172 -02	-4	1.99907 -02
-39	-45	5.88535 +08	-44	5.88535 +08	2	-4	4.46132 -03	-3	8.47915 -03
-38	-44	3.56964 +08	-43	3.56964 +08	3	-3	1.89212 -03	-2	3.42111 -03
-37	-43	2.16509 +08	-42	2.16509 +08	4	-2	7.63391 -04	-1	1.09810 -03
-36	-42	1.31319 +08	-41	1.31319 +08	5	-1	2.45027 -04	0	0.00000 -00
-35	-41	7.96494 +07	-40	7.96494 +07	6	0	0.00000 -00	1	-5.49176 -04
-34	-40	4.83097 +07	-39	4.83098 +07	7	1	-1.22539 -04	2	-8.59430 -04
-33	-39	2.93012 +07	-38	2.93013 +07	8	2	-1.91767 -04	3	-1.03416 -03
-32	-38	1.77720 +07	-37	1.77721 +07	9	3	-2.30756 -04	4	-1.13569 -03
-31	-37	1.07792 +07	-36	1.07793 +07	10	4	-2.53411 -04	5	-1.19588 -03
-30	-36	6.53788 +06	-35	6.53794 +06	11	5	-2.66839 -04	6	-1.23196 -03
-29	-35	3.96536 +06	-34	3.96543 +06	12	6	-2.74890 -04	7	-1.25372 -03
-28	-34	2.40505 +06	-33	2.40512 +06	13	7	-2.79747 -04	8	-1.26689 -03
-27	-33	1.45867 +06	-32	1.45874 +06	14	8	-2.82685 -04	9	-1.27487 -03
-26	-32	8.84671 +05	-31	8.84739 +05	15	9	-2.84465 -04	10	-1.27971 -03
-25	-31	5.36519 +05	-30	5.36587 +05	16	10	-2.85544 -04	11	-1.28264 -03
-24	-30	3.25354 +05	-29	3.25422 +05	17	11	-2.86199 -04	12	-1.28442 -03
-23	-29	1.97276 +05	-28	1.97344 +05	18	12	-2.86596 -04	13	-1.28550 -03
-22	-28	1.19593 +05	-27	1.19661 +05	19	13	-2.86836 -04	14	-1.28615 -03
-21	-27	7.24759 +04	-26	7.25440 +04	20	14	-2.86982 -04	15	-1.28655 -03
-20	-26	4.38980 +04	-25	4.39660 +04	21	15	-2.87071 -04	16	-1.28679 -03
-19	-25	2.65648 +04	-24	2.66326 +04	22	16	-2.87125 -04	17	-1.28694 -03
-18	-24	1.60520 +04	-23	1.61195 +04	23	17	-2.87157 -04	18	-1.28702 -03
-17	-23	9.67612 +03	-22	9.74314 +03	24	18	-2.87177 -04	19	-1.28708 -03
-16	-22	5.80964 +03	-21	5.87592 +03	25	19	-2.87189 -04	20	-1.28711 -03
-15	-21	3.46560 +03	-20	3.53071 +03	26	20	-2.87196 -04	21	-1.28713 -03
-14	-20	2.04559 +03	-19	2.10888 +03	27	21	-2.87201 -04	22	-1.28714 -03
-13	-19	1.18697 +03	-18	1.24742 +03	28	22	-2.87203 -04	23	-1.28715 -03
-12	-18	6.70279 +02	-17	7.26365 +02	29	23	-2.87205 -04	24	-1.28715 -03
-11	-17	3.62938 +02	-16	4.12512 +02	30	24	-2.87206 -04	25	-1.28716 -03
-10	-16	1.84945 +02	-15	2.25387 +02	31	25	-2.87207 -04	26	-1.28716 -03
-9	-15	8.72614 +01	-14	1.16405 +02	32	26	-2.87207 -04	27	-1.28716 -03
-8	-14	3.80777 +01	-13	5.59019 +01	33	27	-2.87207 -04	28	-1.28716 -03
-7	-13	1.56655 +01	-12	2.48722 +01	34	28	-2.87207 -04	29	-1.28716 -03
-6	-12	6.23991 +00	-11	1.04222 +01	35	29	-2.87207 -04	30	-1.28716 -03
-5	-11	2.45483 +00	-10	4.22280 +00	36	30	-2.87207 -04	31	-1.28716 -03
-4	-10	9.64686 -01	-9	1.69069 +00	37	31	-2.87207 -04	32	-1.28716 -03
-3	-9	3.81046 -01	-8	6.77931 -01	38	32	-2.87208 -04	33	-1.28716 -03
-2	-8	1.51914 -01	-7	2.74427 -01	39	33	-2.87208 -04	34	-1.28716 -03
-1	-7	6.13459 -02	-6	1.12729 -01	40	34	-2.87208 -04	35	-1.28716 -03
0	-6	2.51736 -02	-5	4.71176 -02					

Table 19
 $G(u_s, u_B)$ Function

u_s	$\gamma = 5.46 \cdot 10^{+1}$		$\gamma = 2.01 \cdot 10^{+1}$		u_s	$\gamma = 5.46 \cdot 10^{+1}$		$\gamma = 2.01 \cdot 10^{+1}$	
	Y	$u_B = 4$	Y	$u_B = 3$		Y	$u_B = 4$	Y	$u_B = 3$
-40	-44	9.70330 +08	-43	9.70330 +08	1	-3	3.79762 -02	-2	6.85105 -02
-39	-43	5.88535 +08	-42	5.88535 +08	2	-2	1.53269 -02	-1	2.20161 -02
-38	-42	3.56964 +08	-41	3.56964 +08	3	-1	4.92030 -03	0	0.00000 -00
-37	-41	2.16509 +08	-40	2.16510 +08	4	0	0.00000 -00	1	-1.10205 -02
-36	-40	1.31319 +08	-39	1.31319 +08	5	1	-2.46097 -03	2	-1.72492 -02
-35	-39	7.96495 +07	-38	7.96495 +07	6	2	-3.85135 -03	3	-2.07581 -02
-34	-38	4.83098 +07	-37	4.83098 +07	7	3	-4.63445 -03	4	-2.27971 -02
-33	-37	2.93013 +07	-36	2.93014 +07	8	4	-5.08947 -03	5	-2.40058 -02
-32	-36	1.77721 +07	-35	1.77722 +07	9	5	-5.35918 -03	6	-2.47306 -02
-31	-35	1.07793 +07	-34	1.07793 +07	10	6	-5.52090 -03	7	-2.51677 -02
-30	-34	6.53798 +06	-33	6.53800 +06	11	7	-5.61844 -03	8	-2.54322 -02
-29	-33	3.96547 +06	-32	3.96549 +06	12	8	-5.67746 -03	9	-2.55925 -02
-28	-32	2.40516 +06	-31	2.40518 +06	13	9	-5.71322 -03	10	-2.56896 -02
-27	-31	1.45878 +06	-30	1.45880 +06	14	10	-5.73489 -03	11	-2.57485 -02
-26	-30	8.84778 +05	-29	8.84801 +05	15	11	-5.74804 -03	12	-2.57843 -02
-25	-29	5.36626 +05	-28	5.36648 +05	16	12	-5.75601 -03	13	-2.58059 -02
-24	-28	3.25461 +05	-27	3.25483 +05	17	13	-5.76085 -03	14	-2.58191 -02
-23	-27	1.97383 +05	-26	1.97405 +05	18	14	-5.76378 -03	15	-2.58271 -02
-22	-26	1.19700 +05	-25	1.19722 +05	19	15	-5.76556 -03	16	-2.58319 -02
-21	-25	7.25830 +04	-24	7.26053 +04	20	16	-5.76664 -03	17	-2.58348 -02
-20	-24	4.40050 +04	-23	4.40272 +04	21	17	-5.76729 -03	18	-2.58366 -02
-19	-23	2.66715 +04	-22	2.66938 +04	22	18	-5.76769 -03	19	-2.58377 -02
-18	-22	1.61583 +04	-21	1.61805 +04	23	19	-5.76793 -03	20	-2.58383 -02
-17	-21	9.78180 +03	-20	9.80393 +03	24	20	-5.76807 -03	21	-2.58387 -02
-16	-20	5.91432 +03	-19	5.93636 +03	25	21	-5.76816 -03	22	-2.58390 -02
-15	-19	3.56871 +03	-18	3.59061 +03	26	22	-5.76822 -03	23	-2.58391 -02
-14	-18	2.14623 +03	-17	2.16791 +03	27	23	-5.76825 -03	24	-2.58392 -02
-13	-17	1.28378 +03	-16	1.30511 +03	28	24	-5.76827 -03	25	-2.58393 -02
-12	-16	7.61179 +02	-15	7.81967 +02	29	25	-5.76828 -03	26	-2.58393 -02
-11	-15	4.44967 +02	-14	4.64926 +02	30	26	-5.76829 -03	27	-2.58393 -02
-10	-14	2.54325 +02	-13	2.73027 +02	31	27	-5.76829 -03	28	-2.58393 -02
-9	-13	1.40390 +02	-12	1.57225 +02	32	28	-5.76829 -03	29	-2.58393 -02
-8	-12	7.36476 +01	-11	8.78476 +01	33	29	-5.76830 -03	30	-2.58393 -02
-7	-11	3.61352 +01	-10	4.69618 +01	34	30	-5.76830 -03	31	-2.58393 -02
-6	-10	1.64891 +01	-9	2.36748 +01	35	31	-5.76830 -03	32	-2.58393 -02
-5	-9	7.09107 +00	-8	1.11800 +01	36	32	-5.76830 -03	33	-2.58393 -02
-4	-8	2.94846 +00	-7	4.99443 +00	37	33	-5.76830 -03	34	-2.58394 -02
-3	-7	1.21364 +00	-6	2.16039 +00	38	34	-5.76830 -03	35	-2.58394 -02
-2	-6	5.02227 -01	-5	9.25659 -01	39	35	-5.76830 -03	36	-2.58394 -02
-1	-5	2.10594 -01	-4	3.97255 -01	40	36	-5.76830 -03	37	-2.58394 -02
0	-4	8.94767 -02	-3	1.69386 -01					

Table 20
 $G(u_s, u_B)$ Function

u_s	$\gamma = 7.39 \cdot 10^0$		$\gamma = 2.72 \cdot 10^0$		u_s	$\gamma = 7.39 \cdot 10^0$		$\gamma = 2.72 \cdot 10^0$	
	Y	$u_B = 2$	Y	$u_B = 1$		Y	$u_B = 2$	Y	$u_B = 1$
-40	-42	9.70330 +08	-41	9.70330 +08	1	-1	9.75316 -02	0	0.00000 -00
-39	-41	5.88535 +08	-40	5.88535 +08	2	0	0.00000 -00	1	-2.11204 -01
-38	-40	3.56964 +08	-39	3.56964 +08	3	1	-4.91029 -02	2	-3.33243 -01
-37	-39	2.16510 +08	-38	2.16510 +08	4	2	-7.69336 -02	3	-4.02840 -01
-36	-38	1.31319 +08	-37	1.31319 +08	5	3	-9.26353 -02	4	-4.43544 -01
-35	-37	7.96495 +07	-36	7.96495 +07	6	4	-1.01767 -01	5	-4.67751 -01
-34	-36	4.83098 +07	-35	4.83099 +07	7	5	-1.07182 -01	6	-4.82289 -01
-33	-35	2.93014 +07	-34	2.93014 +07	8	6	-1.10429 -01	7	-4.91064 -01
-32	-34	1.77722 +07	-33	1.77722 +07	9	7	-1.12389 -01	8	-4.96375 -01
-31	-33	1.07793 +07	-32	1.07793 +07	10	8	-1.13574 -01	9	-4.99594 -01
-30	-32	6.53802 +06	-31	6.53802 +06	11	9	-1.14292 -01	10	-5.01545 -01
-29	-31	3.96550 +06	-30	3.96551 +06	12	10	-1.14727 -01	11	-5.02728 -01
-28	-30	2.40519 +06	-29	2.40520 +06	13	11	-1.14991 -01	12	-5.03446 -01
-27	-29	1.45882 +06	-28	1.45882 +06	14	12	-1.15152 -01	13	-5.03881 -01
-26	-28	8.84813 +05	-27	8.84821 +05	15	13	-1.15249 -01	14	-5.04145 -01
-25	-27	5.36661 +05	-26	5.36668 +05	16	14	-1.15308 -01	15	-5.04305 -01
-24	-26	3.25496 +05	-25	3.25503 +05	17	15	-1.15343 -01	16	-5.04402 -01
-23	-25	1.97418 +05	-24	1.97425 +05	18	16	-1.15365 -01	17	-5.04461 -01
-22	-24	1.19735 +05	-23	1.19742 +05	19	17	-1.15378 -01	18	-5.04497 -01
-21	-23	7.26180 +04	-22	7.26251 +04	20	18	-1.15386 -01	19	-5.04519 -01
-20	-22	4.40399 +04	-21	4.40471 +04	21	19	-1.15391 -01	20	-5.04532 -01
-19	-21	2.67064 +04	-20	2.67136 +04	22	20	-1.15394 -01	21	-5.04540 -01
-18	-20	1.61931 +04	-19	1.62003 +04	23	21	-1.15396 -01	22	-5.04545 -01
-17	-19	9.81655 +03	-18	9.82372 +03	24	22	-1.15397 -01	23	-5.04547 -01
-16	-18	5.94895 +03	-17	5.95610 +03	25	23	-1.15397 -01	24	-5.04549 -01
-15	-17	3.60314 +03	-16	3.61028 +03	26	24	-1.15398 -01	25	-5.04550 -01
-14	-16	2.18036 +03	-15	2.18747 +03	27	25	-1.15398 -01	26	-5.04551 -01
-13	-15	1.31744 +03	-14	1.32451 +03	28	26	-1.15398 -01	27	-5.04551 -01
-12	-14	7.94115 +02	-13	8.01114 +02	29	27	-1.15398 -01	28	-5.04552 -01
-11	-13	4.76785 +02	-12	4.83684 +02	30	28	-1.15398 -01	29	-5.04552 -01
-10	-12	2.84449 +02	-11	2.91191 +02	31	29	-1.15398 -01	30	-5.04552 -01
-9	-11	1.67987 +02	-10	1.74496 +02	32	30	-1.15398 -01	31	-5.04552 -01
-8	-10	9.76380 +01	-9	1.03801 +02	33	31	-1.15398 -01	32	-5.04552 -01
-7	-9	5.53826 +01	-8	6.10432 +01	34	32	-1.15398 -01	33	-5.04552 -01
-6	-8	3.03191 +01	-7	3.52758 +01	35	33	-1.15398 -01	34	-5.04552 -01
-5	-7	1.58316 +01	-6	1.98690 +01	36	34	-1.15398 -01	35	-5.04552 -01
-4	-6	7.83078 +00	-5	1.07984 +01	37	35	-1.15398 -01	36	-5.04552 -01
-3	-5	3.68534 +00	-4	5.59860 +00	38	36	-1.15398 -01	37	-5.04552 -01
-2	-4	1.67177 +00	-3	2.72649 +00	39	37	-1.15398 -01	38	-5.04552 -01
-1	-3	7.34045 -01	-2	1.19882 +00	40	38	-1.15398 -01	39	-5.04552 -01
0	-2	3.01294 -01	-1	4.04309 -01					

Table 21
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.0 \cdot 10^0$		$\gamma = 3.68 \cdot 10^{-1}$		u_s	$\gamma = 1.0 \cdot 10^0$		$\gamma = 3.68 \cdot 10^{-1}$	
	Y	$u_B = 0$	Y	$u_B = -1$		Y	$u_B = 0$	Y	$u_B = -1$
-40	-40	9.70330 +08	-39	9.70330 +08	1	1	-7.53605 -01	2	-3.05462 +00
-39	-39	5.88535 +08	-38	5.88535 +08	2	2	-1.23090 +00	3	-3.96991 +00
-38	-38	3.56964 +08	-37	3.55964 +08	3	3	-1.52040 +00	4	-4.60464 +00
-37	-37	2.16510 +08	-36	2.16510 +08	4	4	-1.69599 +00	5	-5.02881 +00
-36	-36	1.31319 +08	-35	1.31319 +08	5	5	-1.80249 +00	6	-5.30176 +00
-35	-35	7.96495 +07	-34	7.96495 +07	6	6	-1.86709 +00	7	-5.47262 +00
-34	-34	4.83099 +07	-33	4.83099 +07	7	7	-1.90627 +00	8	-5.57784 +00
-33	-33	2.93014 +07	-32	2.93014 +07	8	8	-1.93003 +00	9	-5.64210 +00
-32	-32	1.77722 +07	-31	1.77722 +07	9	9	-1.94444 +00	10	-5.68120 +00
-31	-31	1.07794 +07	-30	1.07794 +07	10	10	-1.95319 +00	11	-5.70494 +00
-30	-30	6.53803 +06	-29	6.53803 +06	11	11	-1.95849 +00	12	-5.71935 +00
-29	-29	3.96551 +06	-28	3.96551 +05	12	12	-1.96170 +00	13	-5.72809 +00
-28	-28	2.40520 +06	-27	2.40520 +06	13	13	-1.96366 +00	14	-5.73339 +00
-27	-27	1.45883 +06	-26	1.45883 +06	14	14	-1.96484 +00	15	-5.73661 +00
-26	-26	8.84824 +05	-25	8.84826 +05	15	15	-1.96556 +00	16	-5.73856 +00
-25	-25	5.36672 +05	-24	5.36674 +05	16	16	-1.96599 +00	17	-5.73974 +00
-24	-24	3.25507 +05	-23	3.25509 +05	17	17	-1.96626 +00	18	-5.74046 +00
-23	-23	1.97429 +05	-22	1.97431 +05	18	18	-1.96642 +00	19	-5.74089 +00
-22	-22	1.19746 +05	-21	1.19747 +05	19	19	-1.96651 +00	20	-5.74116 +00
-21	-21	7.26289 +04	-20	7.26304 +04	20	20	-1.96657 +00	21	-5.74132 +00
-20	-20	4.40509 +04	-19	4.40523 +04	21	21	-1.96661 +00	22	-5.74141 +00
-19	-19	2.67174 +04	-18	2.67188 +04	22	22	-1.96663 +00	23	-5.74147 +00
-18	-18	1.62041 +04	-17	1.62055 +04	23	23	-1.96664 +00	24	-5.74151 +00
-17	-17	9.82750 +03	-16	9.82894 +03	24	24	-1.96665 +00	25	-5.74153 +00
-16	-16	5.95988 +03	-15	5.96131 +03	25	25	-1.96665 +00	26	-5.74154 +00
-15	-15	3.61405 +03	-14	3.61547 +03	26	26	-1.96666 +00	27	-5.74155 +00
-14	-14	2.19123 +03	-13	2.19264 +03	27	27	-1.96666 +00	28	-5.74155 +00
-13	-13	1.32825 +03	-12	1.32965 +03	28	28	-1.96666 +00	29	-5.74155 +00
-12	-12	8.04824 +02	-11	8.06200 +02	29	29	-1.96666 +00	30	-5.74156 +00
-11	-11	4.87350 +02	-10	4.88590 +02	30	30	-1.96666 +00	31	-5.74156 +00
-10	-10	2.94793 +02	-9	2.96080 +02	31	31	-1.96666 +00	32	-5.74156 +00
-9	-9	1.78000 +02	-8	1.79211 +02	32	32	-1.96666 +00	33	-5.74155 +00
-8	-8	1.07163 +02	-7	1.08254 +02	33	33	-1.96666 +00	34	-5.74156 +00
-7	-7	6.41975 +01	-6	6.51447 +01	34	34	-1.96666 +00	35	-5.74156 +00
-5	-5	3.81377 +01	-5	3.88749 +01	35	35	-1.96666 +00	36	-5.74156 +00
-5	-5	2.23316 +01	-4	2.27916 +01	36	36	-1.96666 +00	37	-5.74156 +00
-4	-4	1.27447 +01	-3	1.28528 +01	37	37	-1.96666 +00	38	-5.74156 +00
-3	-3	6.93004 +00	-2	6.61198 +00	38	38	-1.96666 +00	39	-5.74156 +00
-2	-2	3.40323 +00	-1	2.59584 +00	39	39	-1.96666 +00	40	-5.74156 +00
-1	-1	1.26410 +00	0	0.00000 -00	40	40	-1.96666 +00	41	-5.74156 +00
0	0	0.00000 -00	-1	-1.76164 +00					

Table 22
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.35 \cdot 10^{-1}$		$\gamma = 4.98 \cdot 10^{-2}$		u_s	$\gamma = 1.35 \cdot 10^{-1}$		$\gamma = 4.98 \cdot 10^{-2}$	
	Y	$u_B = -2$	Y	$u_B = -3$		Y	$u_B = -2$	Y	$u_B = -3$
-40	-38	9.70330 +08	-37	9.70330 +08	1	3	-7.46081 +00	4	-1.52775 +01
-39	-37	5.88535 +08	-36	5.88535 +08	2	4	-8.97200 +00	5	-1.75783 +01
-38	-36	3.56964 +08	-35	3.56964 +08	3	5	-1.01681 +01	6	-1.95565 +01
-37	-35	2.16510 +08	-34	2.16510 +08	4	6	-1.10782 +01	7	-2.12312 +01
-36	-34	1.31319 +08	-33	1.31319 +08	5	7	-1.17281 +01	8	-2.25831 +01
-35	-33	7.96495 +07	-32	7.96495 +07	6	8	-1.21631 +01	9	-2.35948 +01
-34	-32	4.83099 +07	-31	4.83099 +07	7	9	-1.24407 +01	10	-2.42928 +01
-33	-31	2.93014 +07	-30	2.93014 +07	8	10	-1.26232 +01	11	-2.47454 +01
-32	-30	1.77722 +07	-29	1.77722 +07	9	11	-1.27189 +01	12	-2.50285 +01
-31	-29	1.07794 +07	-28	1.07794 +07	10	12	-1.27833 +01	13	-2.52024 +01
-30	-28	6.53803 +06	-27	6.53803 +06	11	13	-1.28224 +01	14	-2.53085 +01
-29	-27	3.96551 +06	-26	3.96551 +06	12	14	-1.28462 +01	15	-2.53731 +01
-28	-26	2.40520 +06	-25	2.40520 +06	13	15	-1.28506 +01	16	-2.54122 +01
-27	-25	1.45883 +06	-24	1.45883 +06	14	16	-1.28593 +01	17	-2.54360 +01
-26	-24	8.84826 +05	-23	8.84826 +05	15	17	-1.28747 +01	18	-2.54504 +01
-25	-23	5.36674 +05	-22	5.36674 +05	16	18	-1.28779 +01	19	-2.54591 +01
-24	-22	3.25509 +05	-21	3.25509 +05	17	19	-1.28798 +01	20	-2.54644 +01
-23	-21	1.97431 +05	-20	1.97431 +05	18	20	-1.28810 +01	21	-2.54676 +01
-22	-20	1.19748 +05	-19	1.19748 +05	19	21	-1.28817 +01	22	-2.54696 +01
-21	-19	7.26307 +04	-18	7.26307 +04	20	22	-1.28822 +01	23	-2.54708 +01
-20	-18	4.40526 -04	-17	4.40526 +04	21	23	-1.28824 +01	24	-2.54715 +01
-19	-17	2.67192 +04	-16	2.67191 +04	22	24	-1.28826 +01	25	-2.54719 +01
-18	-16	1.62059 +04	-15	1.62058 +04	23	25	-1.28827 +01	26	-2.54722 +01
-17	-15	9.82927 +03	-14	9.82924 +03	24	26	-1.28827 +01	27	-2.54723 +01
-16	-14	5.96163 +03	-13	5.95158 +03	25	27	-1.28828 +01	28	-2.54724 +01
-15	-13	3.61578 +03	-12	3.61570 +03	26	28	-1.28828 +01	29	-2.54725 +01
-14	-12	2.19293 +03	-11	2.19281 +03	27	29	-1.28828 +01	30	-2.54725 +01
-13	-11	1.32990 +03	-10	1.32971 +03	28	30	-1.28828 +01	31	-2.54726 +01
-12	-10	8.06415 +02	-9	8.06123 +02	29	31	-1.28828 +01	32	-2.54726 +01
-11	-9	4.88842 +02	-8	4.88409 +02	30	32	-1.28828 +01	33	-2.54726 +01
-10	-8	2.96141 +02	-7	2.95507 +02	31	33	-1.28828 +01	34	-2.54726 +01
-9	-7	1.79143 -02	-6	1.78232 +02	32	34	-1.28828 +01	35	-2.54726 +01
-8	-6	1.08017 +02	-5	1.06734 +02	33	35	-1.28828 +01	36	-2.54726 +01
-7	-5	6.46585 +01	-4	6.28958 +01	34	36	-1.28828 +01	37	-2.54726 +01
-6	-4	3.80777 -01	-3	3.57226 +01	35	37	-1.28828 +01	38	-2.54726 +01
-5	-3	2.16077 +01	-2	1.85555 +01	36	38	-1.28828 +01	39	-2.54726 +01
-4	-2	1.12103 +01	-1	7.37885 +00	37	39	-1.28828 +01	40	-2.54726 +01
-3	-1	4.45071 -00	0	0.00000 -00	38	40	-1.28828 +01	41	-2.54726 +01
-2	0	0.00000 -00	1	-5.21615 +00	39	41	-1.28828 +01	42	-2.54726 +01
-1	1	-3.12904 +00	2	-9.31627 +00	40	42	-1.28828 +01	43	-2.54726 +01
0	2	-5.56374 +00	3	-1.25762 +01					

Table 23
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.83 \cdot 10^{-2}$		$\gamma = 6.74 \cdot 10^{-3}$		u_s	$\gamma = 1.83 \cdot 10^{-2}$		$\gamma = 6.74 \cdot 10^{-3}$	
	Y	$u_B = -4$	Y	$u_B = -5$		Y	$u_B = -4$	Y	$u_B = -5$
-40	-36	9.70330 +08	-35	9.70330 +08	1	5	-2.91979 +01	6	-5.39061 +01
-39	-35	5.88535 +08	-34	5.88535 +08	2	6	-3.26389 +01	7	-5.90828 +01
-38	-34	3.56964 +08	-33	3.56964 +08	3	7	-3.57248 +01	8	-6.38313 +01
-37	-33	2.16510 +08	-32	2.16510 +08	4	8	-3.84949 +01	9	-6.82149 +01
-36	-32	1.31319 +08	-31	1.31319 +08	5	9	-4.09350 +01	10	-7.22500 +01
-35	-31	7.96495 +07	-30	7.96495 +07	6	10	-4.29826 +01	11	-7.58937 +01
-34	-30	4.83099 +07	-29	4.83099 +07	7	11	-4.45693 +01	12	-7.90348 +01
-33	-29	2.93014 +07	-28	2.93014 +07	8	12	-4.56918 +01	13	-8.15356 +01
-32	-28	1.77722 +07	-27	1.77722 +07	9	13	-4.64301 +01	14	-8.33436 +01
-31	-27	1.07794 +07	-26	1.07794 +07	10	14	-4.68948 +01	15	-8.45482 +01
-30	-26	6.53803 +06	-25	6.53803 +06	11	15	-4.71812 +01	16	-8.53112 +01
-29	-25	3.96551 +06	-24	3.96551 +06	12	16	-4.73560 +01	17	-8.57827 +01
-28	-24	2.40520 +06	-23	2.40520 +06	13	17	-4.74624 +01	18	-8.60707 +01
-27	-23	1.45883 +06	-22	1.45883 +06	14	18	-4.75269 +01	19	-8.62460 +01
-26	-22	8.84826 +05	-21	8.84826 +05	15	19	-4.75661 +01	20	-8.63524 +01
-25	-21	5.36674 +05	-20	5.36674 +05	16	20	-4.75898 +01	21	-8.64170 +01
-24	-20	3.25509 +05	-19	3.25509 +05	17	21	-4.76043 +01	22	-8.64562 +01
-23	-19	1.97431 +05	-18	1.97430 +05	18	22	-4.76130 +01	23	-8.64799 +01
-22	-18	1.19747 +05	-17	1.19747 +05	19	23	-4.76183 +01	24	-8.64943 +01
-21	-17	7.26306 +04	-16	7.26303 +04	20	24	-4.76215 +01	25	-8.65031 +01
-20	-16	4.40525 +04	-15	4.40522 +04	21	25	-4.76235 +01	26	-8.65084 +01
-19	-15	2.67190 +04	-14	2.67187 +04	22	26	-4.76247 +01	27	-8.65116 +01
-18	-14	1.62057 +04	-13	1.62053 +04	23	27	-4.76254 +01	28	-8.65136 +01
-17	-13	9.82902 +03	-12	9.82857 +03	24	28	-4.76258 +01	29	-8.65147 +01
-16	-12	5.96132 +03	-11	5.96074 +03	25	29	-4.76261 +01	30	-8.65155 +01
-15	-11	3.61536 +03	-10	3.61460 +03	26	30	-4.76262 +01	31	-8.65159 +01
-14	-10	2.19236 +03	-9	2.19133 +03	27	31	-4.76263 +01	32	-8.65162 +01
-13	-9	1.32910 +03	-8	1.32769 +03	28	32	-4.76264 +01	33	-8.65163 +01
-12	-8	8.05284 +02	-7	8.03333 +02	29	33	-4.76264 +01	34	-8.65164 +01
-11	-7	4.87242 +02	-6	4.84544 +02	30	34	-4.76264 +01	35	-8.65165 +01
-10	-6	2.93886 +02	-5	2.90189 +02	31	35	-4.76265 +01	36	-8.65165 +01
-9	-5	1.76004 +02	-4	1.71017 +02	32	36	-4.76265 +01	37	-8.65165 +01
-8	-4	1.03723 +02	-3	9.71450 +01	33	37	-4.76265 +01	38	-8.65165 +01
-7	-3	5.89185 +01	-2	5.04699 +01	34	38	-4.76265 +01	39	-8.65166 +01
-6	-2	3.06093 +01	-1	2.00750 +01	35	39	-4.76265 +01	40	-8.65166 +01
-5	-1	1.21749 +01	0	0.00000 -00	36	40	-4.76265 +01	41	-8.65166 +01
-4	0	0.00000 -00	1	-1.42033 +01	37	41	-4.76265 +01	42	-8.65166 +01
-3	1	-8.61301 +00	2	-2.53859 +01	38	42	-4.76265 +01	43	-8.65166 +01
-2	2	-1.53928 +01	3	-3.43069 +01	39	43	-4.76265 +01	44	-8.65166 +01
-1	3	-2.07994 +01	4	-4.17515 +01	40	44	-4.76265 +01	45	-8.65166 +01
0	4	-2.53072 +01	5	-4.81889 +01					

Table 24
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.48 \cdot 10^{-3}$		$\gamma = 9.12 \cdot 10^{-4}$		u_s	$\gamma = 2.48 \cdot 10^{-3}$		$\gamma = 9.12 \cdot 10^{-4}$	
	Y	$u_B = -6$	Y	$u_B = -7$		Y	$u_B = -6$	Y	$u_B = -7$
-40	-34	9.70330 +08	-33	9.70330 +08	1	7	-9.74527 +01	8	-1.73670 +02
-39	-33	5.88535 +08	-32	5.88535 +08	2	8	-1.05325 +02	9	-1.85763 +02
-38	-32	3.56964 +08	-31	3.56964 +08	3	9	-1.12646 +02	10	-1.97118 +02
-37	-31	2.16510 +08	-30	2.16510 +08	4	10	-1.19504 +02	11	-2.07848 +02
-36	-30	1.31319 +08	-29	1.31319 +08	5	11	-1.25945 +02	12	-2.18029 +02
-35	-29	7.96495 +07	-28	7.96495 +07	6	12	-1.31969 +02	13	-2.27700 +02
-34	-28	4.83099 +07	-27	4.83099 +07	7	13	-1.37501 +02	14	-2.36843 +02
-33	-27	2.93014 +07	-26	2.93014 +07	8	14	-1.42364 +02	15	-2.45340 +02
-32	-26	1.77722 +07	-25	1.77722 +07	9	15	-1.46321 +02	16	-2.52924 +02
-31	-25	1.07794 +07	-24	1.07794 +07	10	16	-1.49236 +02	17	-2.59205 +02
-30	-24	6.53803 +06	-23	6.53803 +06	11	17	-1.51202 +02	18	-2.63910 +02
-29	-23	3.96551 +06	-22	3.96551 +06	12	18	-1.52455 +02	19	-2.67119 +02
-28	-22	2.40520 +06	-21	2.40520 +06	13	19	-1.53231 +02	20	-2.69177 +02
-27	-21	1.45883 +06	-20	1.45883 +06	14	20	-1.53706 +02	21	-2.70454 +02
-26	-20	8.84825 +05	-19	8.84825 +05	15	21	-1.53995 +02	22	-2.71236 +02
-25	-19	5.36673 +05	-18	5.36673 +05	16	22	-1.54170 +02	23	-2.71712 +02
-24	-18	3.25508 +05	-17	3.25507 +05	17	23	-1.54277 +02	24	-2.72002 +02
-23	-17	1.97430 +05	-16	1.97429 +05	18	24	-1.54341 +02	25	-2.72177 +02
-22	-16	1.19747 +05	-15	1.19746 +05	19	25	-1.54380 +02	26	-2.72284 +02
-21	-15	7.26298 +04	-14	7.26289 +04	20	26	-1.54404 +02	27	-2.72348 +02
-20	-14	4.40517 +04	-13	4.40506 +04	21	27	-1.54418 +02	28	-2.72387 +02
-19	-13	2.67180 +04	-12	2.67168 +04	22	28	-1.54427 +02	29	-2.72411 +02
-18	-12	1.62045 +04	-11	1.62029 +04	23	29	-1.54433 +02	30	-2.72426 +02
-17	-11	9.82760 +03	-10	9.82552 +03	24	30	-1.54436 +02	31	-2.72434 +02
-16	-10	5.95948 +03	-9	5.95667 +03	25	31	-1.54438 +02	32	-2.72440 +02
-15	-9	3.61290 +03	-8	3.60906 +03	26	32	-1.54439 +02	33	-2.72443 +02
-14	-8	2.18900 +03	-7	2.18369 +03	27	33	-1.54440 +02	34	-2.72445 +02
-13	-7	1.32447 +03	-6	1.31713 +03	28	34	-1.54440 +02	35	-2.72446 +02
-12	-6	7.98879 +02	-5	7.88818 +02	29	35	-1.54440 +02	36	-2.72447 +02
-11	-5	4.78442 +02	-4	4.64876 +02	30	36	-1.54440 +02	37	-2.72447 +02
-10	-4	2.81961 +02	-3	2.64069 +02	31	37	-1.54441 +02	38	-2.72447 +02
-9	-3	1.60166 +02	-2	1.37193 +02	32	38	-1.54441 +02	39	-2.72448 +02
-8	-2	8.32117 +01	-1	5.45706 +01	33	39	-1.54441 +02	40	-2.72448 +02
-7	-1	3.30986 +01	0	0.00000 -00	34	40	-1.54441 +02	41	-2.72448 +02
-6	0	0.00000 -00	1	-3.86099 +01	35	41	-1.54441 +02	42	-2.72448 +02
-5	1	-2.34180 +01	2	-6.90092 +01	36	42	-1.54441 +02	43	-2.72448 +02
-4	2	-4.18560 +01	3	-9.32621 +01	37	43	-1.54441 +02	44	-2.72448 +02
-3	3	-5.65658 +01	4	-1.13503 +02	38	44	-1.54441 +02	45	-2.72448 +02
-2	4	-6.88426 +01	5	-1.31011 +02	39	45	-1.54441 +02	46	-2.72448 +02
-1	5	-7.94612 +01	6	-1.46571 +02	40	46	-1.54441 +02	47	-2.72448 +02
0	6	-8.88973 +01	7	-1.60681 +02					

Table 25
 $G(u_s, u_B)$ Function

u_s	$\gamma = 3.35 \cdot 10^{-4}$				$\gamma = 1.23 \cdot 10^{-4}$				u_s	$\gamma = 3.35 \cdot 10^{-4}$				$\gamma = 1.23 \cdot 10^{-4}$				
	Y	$u_B = -8$	Y	$u_B = -9$	Y	$u_B = -8$	Y	$u_B = -9$		Y	$u_B = -8$	Y	$u_B = -9$	Y	$u_B = -8$	Y	$u_B = -9$	
-40	-32	9.70330 + 08	-31	9.70330 + 08	1	9	-3.06281 + 02	10	-5.35860 + 02									
-39	-31	5.88535 + 08	-30	5.88535 + 08	2	10	-3.25012 + 02	11	-5.65073 + 02									
-38	-30	3.56964 + 08	-29	3.56964 + 08	3	11	-3.42728 + 02	12	-5.92859 + 02									
-37	-29	2.16510 + 08	-28	2.16510 + 08	4	12	-3.59573 + 02	13	-6.19405 + 02									
-36	-28	1.31319 + 08	-27	1.31319 + 08	5	13	-3.75655 + 02	14	-6.44859 + 02									
-35	-27	7.96495 + 07	-26	7.96495 + 07	6	14	-3.91049 + 02	15	-6.69334 + 02									
-34	-26	4.83099 + 07	-25	4.83099 + 07	7	15	-4.05786 + 02	16	-6.92909 + 02									
-33	-25	2.93014 + 07	-24	2.93014 + 07	8	16	-4.19826 + 02	17	-7.15608 + 02									
-32	-24	1.77722 + 07	-23	1.77722 + 07	9	17	-4.32994 + 02	18	-7.37362 + 02									
-31	-23	1.07793 + 07	-22	1.07793 + 07	10	18	-4.44886 + 02	19	-7.57908 + 02									
-30	-22	6.53803 + 06	-21	6.53803 + 06	11	19	-4.54884 + 02	20	-7.76643 + 02									
-29	-21	3.96551 + 06	-20	3.96551 + 06	12	20	-4.62485 + 02	21	-7.92594 + 02									
-28	-20	2.40520 + 06	-19	2.40520 + 06	13	21	-4.67726 + 02	22	-8.04885 + 02									
-27	-19	1.45883 + 06	-18	1.45882 + 06	14	22	-4.71104 + 02	23	-8.13443 + 02									
-26	-18	8.84824 + 05	-17	8.84822 + 05	15	23	-4.73207 + 02	24	-8.18990 + 02									
-25	-17	5.36671 + 05	-16	5.36669 + 05	16	24	-4.74495 + 02	25	-8.22452 + 02									
-24	-16	3.25506 + 05	-15	3.25504 + 05	17	25	-4.75280 + 02	26	-8.24575 + 02									
-23	-15	1.97428 + 05	-14	1.97426 + 05	18	26	-4.75757 + 02	27	-8.25869 + 02									
-22	-14	1.19745 + 05	-13	1.19742 + 05	19	27	-4.76047 + 02	28	-8.26655 + 02									
-21	-13	7.26272 + 04	-12	7.26238 + 04	20	28	-4.76222 + 02	29	-8.27132 + 02									
-20	-12	4.40486 + 04	-11	4.40442 + 04	21	29	-4.76329 + 02	30	-8.27422 + 02									
-19	-11	2.67142 + 04	-10	2.67085 + 04	22	30	-4.76393 + 02	31	-8.27597 + 02									
-18	-10	1.61995 + 04	-9	1.61919 + 04	23	31	-4.76432 + 02	32	-8.27704 + 02									
-17	-9	9.82089 + 03	-8	9.81044 + 03	24	32	-4.76456 + 02	33	-8.27769 + 02									
-16	-8	5.95033 + 03	-7	5.93588 + 03	25	33	-4.76471 + 02	34	-8.27808 + 02									
-15	-7	3.60029 + 03	-6	3.58033 + 03	26	34	-4.76479 + 02	35	-8.27831 + 02									
-14	-6	2.17158 + 03	-5	2.14423 + 03	27	35	-4.76485 + 02	36	-8.27846 + 02									
-13	-5	1.30054 + 03	-4	1.26366 + 03	28	36	-4.76488 + 02	37	-8.27855 + 02									
-12	-4	7.66451 + 02	-3	7.17816 + 02	29	37	-4.76490 + 02	38	-8.27860 + 02									
-11	-3	4.35377 + 02	-2	3.72929 + 02	30	38	-4.76491 + 02	39	-8.27863 + 02									
-10	-2	2.26193 + 02	-1	1.48338 + 02	31	39	-4.76492 + 02	40	-8.27865 + 02									
-9	-1	8.99717 + 01	0	0.00000 - 00	32	40	-4.76492 + 02	41	-8.27866 + 02									
-8	0	0.00000 - 00	1	-1.04952 + 02	33	41	-4.76492 + 02	42	-8.27867 + 02									
-7	1	-6.36571 + 01	2	-1.87586 + 02	34	42	-4.76493 + 02	43	-8.27867 + 02									
-6	2	-1.13777 + 02	3	-2.53513 + 02	35	43	-4.76493 + 02	44	-8.27868 + 02									
-5	3	-1.53763 + 02	4	-3.08535 + 02	36	44	-4.76493 + 02	45	-8.27868 + 02									
-4	4	-1.87136 + 02	5	-3.56128 + 02	37	45	-4.76493 + 02	46	-8.27868 + 02									
-3	5	-2.16002 + 02	6	-3.98425 + 02	38	46	-4.76493 + 02	47	-8.27868 + 02									
-2	6	-2.41656 + 02	7	-4.36782 + 02	39	47	-4.76493 + 02	48	-8.27868 + 02									
-1	7	-2.64921 + 02	8	-4.72093 + 02	40	48	-4.76493 + 02	49	-8.27868 + 02									
0	8	-2.86338 + 02	9	-5.04974 + 02														

Table 26
 $G(u_s, u_B)$ Function

u_s	$\gamma = 4.54 \cdot 10^{-5}$				$\gamma = 1.67 \cdot 10^{-5}$				u_s	$\gamma = 4.54 \cdot 10^{-5}$				$\gamma = 1.67 \cdot 10^{-5}$				
	Y	$u_B = -10$	Y	$u_B = -11$	Y	$u_B = -10$	Y	$u_B = -11$		Y	$u_B = -10$	Y	$u_B = -11$	Y	$u_B = -10$	Y	$u_B = -11$	
-40	-30	9.70330 + 08	-29	9.70330 + 08	1	11	-9.31651 + 02	12	-1.61156 + 03									
-39	-29	5.88535 + 08	-28	5.88535 + 08	2	12	-9.77464 + 02	13	-1.68374 + 03									
-38	-28	3.56964 + 08	-27	3.56964 + 08	3	13	-1.02123 + 03	14	-1.75296 + 03									
-37	-27	2.16510 + 08	-26	2.16510 + 08	4	14	-1.06322 + 03	15	-1.81956 + 03									
-36	-26	1.31319 + 08	-25	1.31319 + 08	5	15	-1.10361 + 03	16	-1.88383 + 03									
-35	-25	7.96495 + 07	-24	7.96495 + 07	6	16	-1.14258 + 03	17	-1.94598 + 03									
-34	-24	4.83099 + 07	-23	4.83099 + 07	7	17	-1.18024 + 03	18	-2.00621 + 03									
-33	-23	2.93014 + 07	-22	2.93014 + 07	8	18	-1.21669 + 03	19	-2.06465 + 03									
-32	-22	1.77722 + 07	-21	1.77722 + 07	9	19	-1.25194 + 03	20	-2.12142 + 03									
-31	-21	1.07793 + 07	-20	1.07793 + 07	10	20	-1.28588 + 03	21	-2.17651 + 03									
-30	-20	6.53802 + 06	-19	6.53802 + 06	11	21	-1.31811 + 03	22	-2.22975 + 03									
-29	-19	3.96551 + 06	-18	3.96550 + 06	12	22	-1.34774 + 03	23	-2.28055 + 03									
-28	-18	2.40520 + 06	-17	2.40519 + 06	13	23	-1.37324 + 03	24	-2.32756 + 03									
-27	-17	1.45882 + 06	-16	1.45882 + 06	14	24	-1.39313 + 03	25	-2.36840 + 03									
-26	-16	8.84819 + 05	-15	8.84813 + 05	15	25	-1.40711 + 03	26	-2.40061 + 03									
-25	-15	5.36666 + 05	-14	5.36659 + 05	16	26	-1.41622 + 03	27	-2.42344 + 03									
-24	-14	3.25500 + 05	-13	3.25492 + 05	17	27	-1.42192 + 03	28	-2.43840 + 03									
-23	-13	1.97421 + 05	-12	1.97412 + 05	18	28	-1.42542 + 03	29	-2.44778 + 03									
-22	-12	1.19736 + 05	-11	1.19724 + 05	19	29	-1.42755 + 03	30	-2.45355 + 03									
-21	-11	7.26167 + 04	-10	7.26013 + 04	20	30	-1.42884 + 03	31	-2.45707 + 03									
-20	-10	4.40349 + 04	-9	4.40142 + 04	21	31	-1.42963 + 03	32	-2.45920 + 03									
-19	-9	2.66959 + 04	-8	2.66675 + 04	22	32	-1.43011 + 03	33	-2.46050 + 03									
-18	-8	1.61746 + 04	-7	1.61354 + 04	23	33	-1.43040 + 03	34	-2.46129 + 03									
-17	-7	9.78662 + 03	-6	9.73235 + 03	24	34	-1.43057 + 03	35	-2.46176 + 03									
-16	-6	5.90297 + 03	-5	5.82862 + 03	25	35	-1.43068 + 03	36	-2.46205 + 03									
-15	-5	3.53524 + 03	-4	3.43499 + 03	26	36	-1.43074 + 03	37	-2.46223 + 03									
-14	-4	2.08343 + 03	-3	1.95122 + 03	27	37	-1.43078 + 03	38	-2.46234 + 03									
-13	-3	1.18347 + 03	-2	1.01372 + 03	28	38	-1.43081 + 03	39	-2.46240 + 03									
-12	-2	6.14857 + 02	-1	4.03225 + 02	29	39	-1.43082 + 03	40	-2.46244 + 03									
-11	-1	2.44568 + 02	0	0.00000 - 00	30	40	-1.43083 + 03	41	-2.46246 + 03									
-10	0	0.00000 - 00	1	-2.85291 + 02	31	41	-1.43084 + 03	42	-2.46248 + 03									
-9	1	1.73038 + 02	2	-5.09914 + 02	32	42	-1.43084 + 03	43	-2.46249 + 03									
-8	2	-3.09278 + 02	3	-6.89119 + 02	33	43	-1.43084 + 03	44	-2.46249 + 03									
-7	3	-4.17972 + 02	4	-8.38686 + 02	34	44	-1.43084 + 03	45	-2.46249 + 03									
-6	4	-5.08689 + 02	5	-9.68056 + 02	35	45	-1.43084 + 03	46	-2.46250 + 03									
-5	5	-5.87156 + 02	6	-1.08303 + 03	36	46	-1.43084 + 03	47	-2.46250 + 03									
-4	6	-6.56892 + 02	7	-1.18729 + 03	37	47	-1.43084 + 03	48	-2.46250 + 03									
-3	7	-7.20132 + 02	8	-1.28328 + 03	38	48	-1.43084 + 03	49	-2.46250 + 03									
-2	8	-7.78351 + 02	9	-1.37266 + 03	39	49	-1.43084 + 03	50	-2.46250 + 03									
-1	9	-8.32561 + 02	10	-1.45662 + 03	40	50	-1.43084 + 03	51	-2.46250 + 03									
0	10	-8.83484 + 02	11	-1.53603 + 03														

Table 27
 $G(u_s, u_B)$ Function

u_s	$\gamma = 6.14 \cdot 10^{-6}$			$\gamma = 2.26 \cdot 10^{-6}$			u_s	$\gamma = 6.14 \cdot 10^{-6}$			$\gamma = 2.26 \cdot 10^{-6}$		
	Y	$u_B = -12$	Y	$u_B = -13$	Y	$u_B = -12$		Y	$u_B = -13$	Y	$u_B = -13$		
-40	-28	9.70330 +08	-27	9.70330 +08	1	13	-2.77601 +03	14	-4.76505 +03				
-39	-27	5.88535 +08	-26	5.88535 +08	2	14	-2.89014 +03	15	-4.94610 +03				
-38	-26	3.56964 +08	-25	3.56964 +08	3	15	-2.99996 +03	16	-5.12081 +03				
-37	-25	2.16510 +08	-24	2.16510 +08	4	16	-3.10592 +03	17	-5.28977 +03				
-36	-24	1.31319 +08	-23	1.31319 +08	5	17	-3.20840 +03	18	-5.45354 +03				
-35	-23	7.96495 +07	-22	7.96495 +07	6	18	-3.30773 +03	19	-5.61255 +03				
-34	-22	4.83098 +07	-21	4.83098 +07	7	19	-3.40417 +03	20	-5.76720 +03				
-33	-21	2.93014 +07	-20	2.93014 +07	8	20	-3.49794 +03	21	-5.91782 +03				
-32	-20	1.77722 +07	-19	1.77721 +07	9	21	-3.58923 +03	22	-6.06470 +03				
-31	-19	1.07793 +07	-18	1.07793 +07	10	22	-3.67816 +03	23	-6.20805 +03				
-30	-18	6.53801 +06	-17	6.53800 +06	11	23	-3.76471 +03	24	-6.34802 +03				
-29	-17	3.96549 +06	-16	3.96548 +06	12	24	-3.84850 +03	25	-6.48456 +03				
-28	-16	2.40518 +06	-15	2.40517 +06	13	25	-3.92895 +03	26	-6.61726 +03				
-27	-15	1.45881 +06	-14	1.45879 +06	14	26	-4.00374 +03	27	-6.74479 +03				
-26	-14	8.84802 +05	-13	8.84781 +05	15	27	-4.06927 +03	28	-6.85405 +03				
-25	-13	5.36647 +05	-12	5.36621 +05	16	28	-4.12146 +03	29	-6.96933 +03				
-24	-12	3.25477 +05	-11	3.25445 +05	17	29	-4.15877 +03	30	-7.05393 +03				
-23	-11	1.97392 +05	-10	1.97350 +05	18	30	-4.18334 +03	31	-7.11491 +03				
-22	-10	1.19699 +05	-9	1.19643 +05	19	31	-4.19878 +03	32	-7.15526 +03				
-21	-9	7.25671 +04	-8	7.24899 +04	20	32	-4.20828 +03	33	-7.18068 +03				
-20	-8	4.39673 +04	-7	4.38636 +04	21	33	-4.21408 +03	34	-7.19634 +03				
-19	-7	2.66028 +04	-6	2.64552 +04	22	34	-4.21760 +03	35	-7.20589 +03				
-18	-6	1.60459 +04	-5	1.58438 +04	23	35	-4.21974 +03	36	-7.21170 +03				
-17	-5	9.60977 +03	-4	9.33729 +03	24	36	-4.22104 +03	37	-7.21522 +03				
-16	-4	5.65335 +03	-3	5.30398 +03	25	37	-4.22182 +03	38	-7.21736 +03				
-15	-3	3.21702 +03	-2	2.75559 +03	26	38	-4.22230 +03	39	-7.21856 +03				
-14	-2	1.67135 +03	-1	1.09608 +03	27	39	-4.22259 +03	40	-7.21944 +03				
-13	-1	6.64806 +02	0	0.00000 -00	28	40	-4.22276 +03	41	-7.21992 +03				
-12	0	0.00000 -00	1	-7.75502 +02	29	41	-4.22287 +03	42	-7.22021 +03				
-11	1	-4.70366 +02	2	-1.38609 +03	30	42	-4.22294 +03	43	-7.22039 +03				
-10	2	-8.40706 +02	3	-1.87322 +03	31	43	-4.22297 +03	44	-7.22049 +03				
-9	3	-1.13616 +03	4	-2.27978 +03	32	44	-4.22300 +03	45	-7.22056 +03				
-8	4	-1.38276 +03	5	-2.63145 +03	33	45	-4.22301 +03	46	-7.22060 +03				
-7	5	-1.59605 +03	6	-2.94398 +03	34	46	-4.22302 +03	47	-7.22062 +03				
-6	6	-1.78561 +03	7	-3.22740 +03	35	47	-4.22303 +03	48	-7.22063 +03				
-5	7	-1.95752 +03	8	-3.48832 +03	36	48	-4.22303 +03	49	-7.22064 +03				
-4	8	-2.11577 +03	9	-3.73128 +03	37	49	-4.22303 +03	50	-7.22065 +03				
-3	9	-2.26313 +03	10	-3.95950 +03	38	50	-4.22303 +03	51	-7.22065 +03				
-2	10	-2.40156 +03	11	-4.17537 +03	39	51	-4.22303 +03	52	-7.22065 +03				
-1	11	-2.53249 +03	12	-4.38069 +03	40	52	-4.22303 +03	53	-7.22065 +03				
0	12	-2.65702 +03	13	-4.57688 +03									

Table 28
 $G(u_s, u_B)$ Function

u_s	$\gamma = 8.31 \cdot 10^{-7}$				$\gamma = 3.06 \cdot 10^{-7}$				u_s	$\gamma = 8.31 \cdot 10^{-7}$				$\gamma = 3.06 \cdot 10^{-7}$					
	Y	$u_B = -14$	Y	$u_B = -15$	Y	$u_B = -14$	Y	$u_B = -15$		Y	$u_B = -14$	Y	$u_B = -15$	Y	$u_B = -14$	Y	$u_B = -15$		
-40	-26	9.70330 +08	-25	9.70330 +08	1	15	-8.15475 +03	16	-1.39198 +04	2	16	-8.44278 +03	17	-1.43791 +04	3	17	-8.72136 +03	18	-1.48242 +04
-39	-25	5.88535 +08	-24	5.88535 +08	4	18	-8.99137 +03	19	-1.52565 +04	5	19	-9.25354 +03	20	-1.56769 +04	6	20	-9.50852 +03	21	-1.60863 +04
-38	-24	3.56964 +08	-23	3.56964 +08	7	21	-9.75688 +03	22	-1.64857 +04	8	21	-9.99909 +03	23	-1.68757 +04	9	23	-1.02356 +04	24	-1.72568 +04
-37	-23	2.16509 +08	-22	2.16509 +08	10	24	-1.04667 +04	25	-1.76298 +04	11	25	-1.06928 +04	26	-1.79950 +04	12	26	-1.09140 +04	27	-1.83528 +04
-36	-22	1.31319 +08	-21	1.31319 +08	13	27	-1.11302 +04	28	-1.87035 +04	14	27	-1.45868 +06	29	-1.90469 +04	15	28	-1.84652 +05	30	-1.93819 +04
-35	-21	7.96495 +07	-20	7.96494 +07	16	30	-1.17342 +04	31	-1.97056 +04	17	30	-1.96540 +06	32	-2.00107 +04	18	31	-1.36569 +05	33	-2.02834 +04
-34	-20	4.83098 +07	-19	4.83098 +07	19	33	-1.21405 +04	34	-2.05062 +04	20	33	-1.97258 +05	35	-2.06692 +04	21	34	-1.19225 +05	36	-2.07780 +04
-33	-19	2.93013 +07	-18	2.93013 +07	22	36	-1.22744 +04	37	-2.08469 +04	23	36	-1.9048 +05	38	-2.08894 +04	24	37	-1.45875 +06	38	-2.09153 +04
-32	-18	1.77721 +07	-17	1.77721 +07	25	39	-1.23055 +04	40	-2.09311 +04	26	39	-1.84739 +05	41	-2.09407 +04	27	40	-1.9258 +05	42	-2.09465 +04
-31	-17	1.07793 +07	-16	1.07793 +07	28	42	-1.22902 +04	43	-2.09500 +04	29	42	-1.2858 +03	44	-2.09522 +04	30	43	-1.228527 +03	45	-2.09535 +04
-30	-16	6.53797 +06	-15	6.53793 +06	31	45	-1.23141 +04	46	-2.09543 +04	32	45	-1.08842 +03	47	-2.09547 +04	33	46	-6.15184 +03	48	-2.09550 +04
-29	-15	3.96545 +06	-14	3.96540 +06	35	49	-1.23142 +04	50	-2.09554 +04	36	49	-8.00258 +03	51	-2.09554 +04	37	50	-4.33853 +03	52	-2.09554 +04
-28	-14	2.40514 +06	-13	2.40508 +06	40	54	-1.23145 +04	55	-2.09555 +04	41	54	-4.85381 +03	56	-2.09555 +04	42	55	-5.32109 +03	57	-2.09555 +04
-27	-13	1.45875 +06	-12	1.45868 +06	44	58	-1.23144 +04	59	-2.09555 +04	45	58	-9.48225 +03	60	-2.09555 +04	46	59	-5.75128 +03	61	-2.09555 +04
-26	-12	8.84739 +05	-11	8.84652 +05	48	62	-1.23144 +04	63	-2.09555 +04	49	62	-1.01426 +04	64	-2.09555 +04	50	63	-1.22524 +03	65	-2.09555 +04
-25	-11	5.36569 +05	-10	5.36455 +05	52	66	-1.23145 +04	67	-2.09555 +04	53	66	-1.29527 +04	68	-2.09555 +04	54	67	-7.54600 +03	69	-2.09555 +04
-24	-10	3.25376 +05	-9	3.25223 +05	57	71	-1.23145 +04	72	-2.09555 +04	58	71	-7.85623 +03	73	-2.09555 +04	59	72	-1.39198 +04	74	-2.09555 +04
-23	-9	1.97258 +05	-8	1.97048 +05	62	76	-1.23145 +04	77	-2.09555 +04	63	76	-8.15475 +03	78	-2.09555 +04	64	77	-8.44278 +03	79	-2.09555 +04
-22	-8	1.19515 +05	-7	1.19225 +05	67	81	-1.23145 +04	82	-2.09555 +04	68	81	-9.75688 +03	83	-2.09555 +04	69	82	-1.04667 +04	84	-2.09555 +04
-21	-7	7.23139 +04	-6	7.19129 +04	72	86	-1.22068 +04	87	-2.09555 +04	73	86	-9.99909 +03	88	-2.09555 +04	74	87	-1.06928 +04	89	-2.09555 +04
-20	-6	4.36173 +04	-5	4.30680 +04	77	91	-1.22486 +04	92	-2.09555 +04	78	91	-1.09140 +04	93	-2.09555 +04	79	92	-1.45875 +04	94	-2.09555 +04
-19	-5	2.61220 +04	-4	2.53813 +04	82	96	-1.22744 +04	97	-2.09555 +04	83	96	-1.11302 +04	98	-2.09555 +04	84	97	-1.21405 +04	99	-2.09555 +04
-18	-4	1.53945 +04	-3	1.44177 +04	87	101	-1.22902 +04	102	-2.09555 +04	88	101	-1.17342 +04	103	-2.09555 +04	89	102	-1.22997 +04	104	-2.09555 +04
-17	-3	8.74478 +03	-2	7.49049 +03	92	106	-1.22997 +04	107	-2.09555 +04	93	106	-2.97945 +03	108	-2.09555 +04	94	107	-1.23133 +04	109	-2.09555 +04
-16	-2	4.54321 +03	-1	2.97945 +03	97	111	-1.23133 +04	112	-2.09555 +04	98	111	-0.00000 -00	113	-2.09555 +04	99	112	-1.23138 +04	114	-2.09555 +04
-15	-1	1.80713 +03	0	0.00000 -00	102	116	-1.23138 +04	117	-2.09555 +04	103	116	-1.23141 +04	118	-2.09555 +04	104	117	-1.23142 +04	119	-2.09555 +04
-14	0	0.00000 -00	1	-2.10803 +03	107	121	-1.23142 +04	122	-2.09555 +04	108	121	-1.23145 +04	123	-2.09555 +04	109	122	-1.23145 +04	124	-2.09555 +04
-13	1	-1.27858 +03	2	-3.76778 +03	112	126	-1.23145 +04	127	-2.09555 +04	113	126	-1.23148 +04	128	-2.09555 +04	114	127	-1.23152 +04	129	-2.09555 +04
-12	2	-2.28527 +03	3	-5.09194 +03	117	131	-1.23145 +04	132	-2.09555 +04	118	131	-6.19710 +03	133	-2.09555 +04	119	132	-7.15302 +03	134	-2.09555 +04
-11	3	-3.08842 +03	4	-6.19710 +03	122	136	-1.23145 +04	137	-2.09555 +04	123	136	-7.54600 +03	138	-2.09555 +04	124	137	-8.84042 +03	139	-2.09555 +04
-10	4	-3.75873 +03	5	-7.15302 +03	127	141	-1.23145 +04	142	-2.09555 +04	128	141	-8.00258 +03	143	-2.09555 +04	129	142	-9.48225 +03	144	-2.09555 +04
-9	5	-4.33853 +03	6	-8.00258 +03	132	146	-1.23145 +04	147	-2.09555 +04	133	146	-8.77300 +03	148	-2.09555 +04	134	147	-9.8212 +03	149	-2.09555 +04
-8	6	-4.85381 +03	7	-8.77300 +03	137	151	-1.23145 +04	152	-2.09555 +04	138	151	-9.48225 +03	153	-2.09555 +04	139	152	-10.75128 +03	154	-2.09555 +04
-7	7	-5.32109 +03	8	-9.48225 +03	142	156	-1.23145 +04	157	-2.09555 +04	143	156	-1.01426 +04	158	-2.09555 +04	144	157	-1.13498 +04	159	-2.09555 +04
-6	8	-5.75128 +03	9	-1.01426 +04	147	161	-1.23145 +04	162	-2.09555 +04	148	161	-1.07630 +04	163	-2.09555 +04	149	162	-1.29527 +04	164	-2.09555 +04
-5	9	-6.15184 +03	10	-1.07630 +04	152	166	-1.23145 +04	167	-2.09555 +04	153	166	-1.23145 +04	168	-2.09555 +04	154	167	-1.23145 +04	169	-2.09555 +04
-4	10	-6.52812 +03	11	-1.13498 +04	157	171	-1.23145 +04	172	-2.09555 +04	158	171	-1.23145 +04	173	-2.09555 +04	159	172	-1.23145 +04	174	-2.09555 +04
-3	11	-6.88402 +03	12	-1.19079 +04	162	176	-1.23145 +04	177	-2.09555 +04	163	176	-1.23145 +04	178	-2.09555 +04	164	177	-1.23145 +04	179	-2.09555 +04
-2	12	-7.22254 +03	13	-1.24412 +04	167	181	-1.23145 +04	182	-2.09555 +04	168	181	-1.23145 +04	183	-2.09555 +04	169	182	-1.23145 +04	184	-2.09555 +04
-1	13	-7.54600 +03	14	-1.29527 +04	172	186	-1.23145 +04	187	-2.09555 +04	173	186	-1.23145 +04	188	-2.09555 +04	174	187	-1.23145 +04	189	-2.09555 +04
0	14	-7.85623 +03	15	-1.34449 +04	177	191	-1.23145 +04	192	-2.09555 +04	178	191	-1.34449 +04	193	-2.09555 +04	179	192	-1.34449 +04	194	-2.09555 +04

Table 29
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.12 \cdot 10^{-7}$			$\gamma = 4.14 \cdot 10^{-8}$			u_s	$\gamma = 1.12 \cdot 10^{-7}$			$\gamma = 4.14 \cdot 10^{-8}$		
	Y	$u_B = -16$	Y	$u_B = -17$	Y	$u_B = -16$		Y	$u_B = -16$	Y	$u_B = -17$		
-40	-24	9.70335 +08	-23	9.70335 +08	1	17	-2.37076 +04	18	-4.02970 +04				
-39	-23	5.88540 +08	-22	5.88540 +08	2	18	-2.44415 +04	19	-4.14720 +04				
-38	-22	3.56969 +08	-21	3.56969 +08	3	19	-2.51542 +04	20	-4.26147 +04				
-37	-21	2.16514 +08	-20	2.16514 +08	4	20	-2.58473 +04	21	-4.37278 +04				
-36	-20	1.31324 +08	-19	1.31324 +08	5	21	-2.65224 +04	22	-4.48134 +04				
-35	-19	7.96499 +07	-18	7.96498 +07	6	22	-2.71809 +04	23	-4.58734 +04				
-34	-18	4.83102 +07	-17	4.83101 +07	7	23	-2.78238 +04	24	-4.69096 +04				
-33	-17	2.93017 +07	-16	2.93016 +07	8	24	-2.84523 +04	25	-4.79235 +04				
-32	-16	1.77725 +07	-15	1.77724 +07	9	25	-2.90672 +04	26	-4.89165 +04				
-31	-15	1.07797 +07	-14	1.07796 +07	10	26	-2.96695 +04	27	-4.98898 +04				
-30	-14	6.53790 +06	-13	6.53775 +06	11	27	-3.02598 +04	28	-5.08445 +04				
-29	-13	3.96536 +06	-12	3.96517 +06	12	28	-3.08388 +04	29	-5.17817 +04				
-28	-12	2.40502 +06	-11	2.40478 +06	13	29	-3.14069 +04	30	-5.27032 +04				
-27	-11	1.45859 +06	-10	1.45828 +06	14	30	-3.19645 +04	31	-5.36066 +04				
-26	-10	8.84470 +05	-9	8.84054 +05	15	31	-3.25112 +04	32	-5.44953 +04				
-25	-9	5.36207 +05	-8	5.35637 +05	16	32	-3.30455 +04	33	-5.53678 +04				
-24	-8	3.24882 +05	-7	3.24093 +05	17	33	-3.35628 +04	34	-5.62217 +04				
-23	-7	1.96574 +05	-6	1.95484 +05	18	34	-3.40521 +04	35	-5.70500 +04				
-22	-6	1.18569 +05	-5	1.17076 +05	19	35	-3.44919 +04	36	-5.78358 +04				
-21	-5	7.10076 +04	-4	6.89942 +04	20	36	-3.48536 +04	37	-5.85455 +04				
-20	-4	4.18473 +04	-3	3.91919 +04	21	37	-3.51200 +04	38	-5.91331 +04				
-19	-3	2.37713 +04	-2	2.03617 +04	22	38	-3.52988 +04	39	-5.95689 +04				
-18	-2	1.23502 +04	-1	8.09904 +03	23	39	-3.54122 +04	40	-5.98625 +04				
-17	-1	4.91234 +03	0	0.00000 -00	24	40	-3.54822 +04	41	-6.00492 +04				
-16	0	0.00000 -00	1	-5.73028 +03	25	41	-3.55250 +04	42	-6.01646 +04				
-15	1	-3.47561 +03	2	-1.02424 +04	26	42	-3.55510 +04	43	-6.02351 +04				
-14	2	-6.21207 +03	3	-1.38418 +04	27	43	-3.55668 +04	44	-6.02780 +04				
-13	3	-8.39524 +03	4	-1.68459 +04	28	44	-3.55764 +04	45	-6.03041 +04				
-12	4	-1.02178 +04	5	-1.94444 +04	29	45	-3.55822 +04	46	-6.03199 +04				
-11	5	-1.17938 +04	6	-2.17537 +04	30	46	-3.55858 +04	47	-6.03295 +04				
-10	6	-1.31945 +04	7	-2.38480 +04	31	47	-3.55879 +04	48	-6.03353 +04				
-9	7	-1.44647 +04	8	-2.57759 +04	32	48	-3.55892 +04	49	-6.03388 +04				
-8	8	-1.56341 +04	9	-2.75711 +04	33	49	-3.55900 +04	50	-6.03409 +04				
-7	9	-1.67229 +04	10	-2.92575 +04	34	50	-3.55905 +04	51	-6.03422 +04				
-6	10	-1.77457 +04	11	-3.08525 +04	35	51	-3.55908 +04	52	-6.03430 +04				
-5	11	-1.87132 +04	12	-3.23697 +04	36	52	-3.55909 +04	53	-6.03435 +04				
-4	12	-1.96334 +04	13	-3.38193 +04	37	53	-3.55910 +04	54	-6.03438 +04				
-3	13	-2.05126 +04	14	-3.52097 +04	38	54	-3.55911 +04	55	-6.03440 +04				
-2	14	-2.13559 +04	15	-3.65475 +04	39	55	-3.55911 +04	56	-6.03441 +04				
-1	15	-2.21674 +04	16	-3.78384 +04	40	56	-3.55912 +04	57	-6.03441 +04				
0	16	-2.29503 +04	17	-3.90869 +04									

Table 30
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.52 \cdot 10^{-8}$			$\gamma = 5.60 \cdot 10^{-9}$			u_s	$\gamma = 1.52 \cdot 10^{-8}$			$\gamma = 5.60 \cdot 10^{-9}$		
	Y	$u_B = -18$	Y	$u_B = -19$	Y	$u_B = -18$		Y	$u_B = -19$	Y	$u_B = -19$		
-40	-22	9.70335 +08	-21	9.70334 +08	1	19	-6.83754 +04	20	-1.15842 +05				
-39	-21	5.88539 +08	-20	5.88539 +08	2	20	-7.02595 +04	21	-1.18868 +05				
-38	-20	3.56969 +08	-19	3.56969 +08	3	21	-7.20947 +04	22	-1.21819 +05				
-37	-19	2.16514 +08	-18	2.16514 +08	4	22	-7.38845 +04	23	-1.24700 +05				
-36	-18	1.31324 +08	-17	1.31324 +08	5	23	-7.56321 +04	24	-1.27517 +05				
-35	-17	7.96496 +07	-16	7.96493 +07	6	24	-7.73405 +04	25	-1.30273 +05				
-34	-16	4.83099 +07	-15	4.83096 +07	7	25	-7.90122 +04	26	-1.32972 +05				
-33	-15	2.93014 +07	-14	2.93011 +07	8	26	-8.06493 +04	27	-1.35618 +05				
-32	-14	1.77722 +07	-13	1.77718 +07	9	27	-8.22540 +04	28	-1.38213 +05				
-31	-13	1.07793 +07	-12	1.07788 +07	10	28	-8.38282 +04	29	-1.40761 +05				
-30	-12	6.53744 +06	-11	6.53680 +06	11	29	-8.53734 +04	30	-1.43263 +05				
-29	-11	3.96479 +06	-10	3.96394 +06	12	30	-8.68913 +04	31	-1.45723 +05				
-28	-10	2.40427 +06	-9	2.40314 +06	13	31	-8.83831 +04	32	-1.48142 +05				
-27	-9	1.45760 +06	-8	1.45605 +06	14	32	-8.98501 +04	33	-1.50523 +05				
-26	-8	8.83113 +05	-7	8.80968 +05	15	33	-9.12932 +04	34	-1.52866 +05				
-25	-7	5.34336 +05	-6	5.31373 +05	16	34	-9.27128 +04	35	-1.55173 +05				
-24	-6	3.22296 +05	-5	3.18237 +05	17	35	-9.41080 +04	36	-1.57445 +05				
-23	-5	1.93022 +05	-4	1.87549 +05	18	36	-9.54752 +04	37	-1.59680 +05				
-22	-4	1.13756 +05	-3	1.06538 +05	19	37	-9.68036 +04	38	-1.61872 +05				
-21	-3	6.46162 +04	-2	5.53481 +04	20	38	-9.80672 +04	39	-1.64006 +05				
-20	-2	3.35705 +04	-1	2.20158 +04	21	39	-9.92135 +04	40	-1.66040 +05				
-19	-1	1.33534 +04	0	0.00000 -00	22	40	-1.00173 +05	41	-1.67893 +05				
-18	0	0.00000 -00	1	-1.55768 +04	23	41	-1.00885 +05	42	-1.69446 +05				
-17	1	-9.44760 +03	2	-2.78408 +04	24	42	-1.01368 +05	43	-1.70612 +05				
-16	2	-1.68865 +04	3	-3.76251 +04	25	43	-1.01675 +05	44	-1.71404 +05				
-15	3	-2.28210 +04	4	-4.57912 +04	26	44	-1.01865 +05	45	-1.71910 +05				
-14	4	-2.77739 +04	5	-5.28546 +04	27	45	-1.01982 +05	46	-1.72224 +05				
-13	5	-3.20581 +04	6	-5.91320 +04	28	46	-1.02052 +05	47	-1.72415 +05				
-12	6	-3.58656 +04	7	-6.48247 +04	29	47	-1.02095 +05	48	-1.72532 +05				
-11	7	-3.93183 +04	8	-7.00654 +04	30	48	-1.02121 +05	49	-1.72603 +05				
-10	8	-4.24970 +04	9	-7.49453 +04	31	49	-1.02137 +05	50	-1.72645 +05				
-9	9	-4.54568 +04	10	-7.95292 +04	32	50	-1.02147 +05	51	-1.72672 +05				
-8	10	-4.82371 +04	11	-8.38651 +04	33	51	-1.02152 +05	52	-1.72687 +05				
-7	11	-5.08669 +04	12	-8.79891 +04	34	52	-1.02156 +05	53	-1.72697 +05				
-6	12	-5.33683 +04	13	-9.19296 +04	35	53	-1.02158 +05	54	-1.72703 +05				
-5	13	-5.57583 +04	14	-9.57090 +04	36	54	-1.02159 +05	55	-1.72706 +05				
-4	14	-5.80506 +04	15	-9.93457 +04	37	55	-1.02160 +05	56	-1.72708 +05				
-3	15	-6.02564 +04	16	-1.02859 +05	38	56	-1.02161 +05	57	-1.72710 +05				
-2	16	-6.23847 +04	17	-1.06253 +05	39	57	-1.02161 +05	58	-1.72711 +05				
-1	17	-6.44431 +04	18	-1.09542 +05	40	58	-1.02161 +05	59	-1.72711 +05				
0	18	-6.64382 +04	19	-1.12736 +05									

Table 31
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.06 \cdot 10^{-9}$		$\gamma = 7.58 \cdot 10^{-10}$		u_s	$\gamma = 2.06 \cdot 10^{-9}$		$\gamma = 7.58 \cdot 10^{-10}$	
	Y	$u_B = -20$	Y	$u_B = -21$		Y	$u_B = -20$	Y	$u_B = -21$
-40	-20	9.70334 +08	-19	9.70328 +08	1	21	-1.95977 +05	22	-3.31125 +05
-39	-19	5.88539 +08	-18	5.88533 +08	2	22	-2.00842 +05	23	-3.38957 +05
-38	-18	3.56968 +08	-17	3.56962 +08	3	23	-2.05593 +05	24	-3.46614 +05
-37	-17	2.16513 +08	-16	2.16508 +08	4	24	-2.10237 +05	25	-3.54105 +05
-36	-16	1.31323 +08	-15	1.31317 +08	5	25	-2.14781 +05	26	-3.61443 +05
-35	-15	7.96488 +07	-14	7.96473 +07	6	26	-2.19231 +05	27	-3.68635 +05
-34	-14	4.83090 +07	-13	4.83074 +07	7	27	-2.23593 +05	28	-3.75689 +05
-33	-13	2.93004 +07	-12	2.92985 +07	8	28	-2.27872 +05	29	-3.82615 +05
-32	-12	1.77709 +07	-11	1.77687 +07	9	29	-2.32072 +05	30	-3.89418 +05
-31	-11	1.07777 +07	-10	1.07749 +07	10	30	-2.36199 +05	31	-3.96104 +05
-30	-10	6.53541 +06	-9	6.53228 +06	11	31	-2.40254 +05	32	-4.02680 +05
-29	-9	3.96208 +06	-8	3.95781 +06	12	32	-2.44243 +05	33	-4.09151 +05
-28	-8	2.40058 +06	-7	2.39470 +06	13	33	-2.48167 +05	34	-4.15521 +05
-27	-7	1.45251 +06	-6	1.44440 +06	14	34	-2.52031 +05	35	-4.21795 +05
-26	-6	8.76083 +05	-5	8.65044 +05	15	35	-2.55836 +05	36	-4.27978 +05
-25	-5	5.24681 +05	-4	5.09798 +05	16	36	-2.59586 +05	37	-4.34073 +05
-24	-4	3.09213 +05	-3	2.89587 +05	17	37	-2.63281 +05	38	-4.40083 +05
-23	-3	1.75648 +05	-2	1.50450 +05	18	38	-2.66923 +05	39	-4.46011 +05
-22	-2	9.12533 +04	-1	5.98439 +04	19	39	-2.70509 +05	40	-4.51858 +05
-21	-1	3.62976 +04	0	0.00000 -00	20	40	-2.74030 +05	41	-4.57619 +05
-20	0	0.00000 -00	1	-4.23410 +04	21	41	-2.77461 +05	42	-4.63282 +05
-19	1	-2.56816 +04	2	-7.56779 +04	22	42	-2.80740 +05	43	-4.68806 +05
-18	2	-4.59015 +04	3	-1.02274 +05	23	43	-2.83738 +05	44	-4.74096 +05
-17	3	-6.20330 +04	4	-1.24472 +05	24	44	-2.86264 +05	45	-4.78949 +05
-16	4	-7.54966 +04	5	-1.43672 +05	25	45	-2.88171 +05	46	-4.83060 +05
-15	5	-8.71422 +04	6	-1.60736 +05	26	46	-2.89473 +05	47	-4.86180 +05
-14	6	-9.74919 +04	7	-1.76210 +05	27	47	-2.90306 +05	48	-4.88318 +05
-13	7	-1.06882 +05	8	-1.90456 +05	28	48	-2.90822 +05	49	-4.89689 +05
-12	8	-1.15522 +05	9	-2.03721 +05	29	49	-2.91138 +05	50	-4.90540 +05
-11	9	-1.23568 +05	10	-2.16181 +05	30	50	-2.91330 +05	51	-4.91061 +05
-10	10	-1.31125 +05	11	-2.27967 +05	31	51	-2.91447 +05	52	-4.91378 +05
-9	11	-1.38274 +05	12	-2.39177 +05	32	52	-2.91517 +05	53	-4.91570 +05
-8	12	-1.45073 +05	13	-2.49889 +05	33	53	-2.91560 +05	54	-4.91687 +05
-7	13	-1.51570 +05	14	-2.60162 +05	34	54	-2.91587 +05	55	-4.91758 +05
-6	14	-1.57801 +05	15	-2.70048 +05	35	55	-2.91602 +05	56	-4.91801 +05
-5	15	-1.63797 +05	16	-2.79586 +05	36	56	-2.91612 +05	57	-4.91827 +05
-4	16	-1.69583 +05	17	-2.88812 +05	37	57	-2.91618 +05	58	-4.91842 +05
-3	17	-1.75178 +05	18	-2.97753 +05	38	58	-2.91621 +05	59	-4.91852 +05
-2	18	-1.80601 +05	19	-3.06435 +05	39	59	-2.91623 +05	60	-4.91858 +05
-1	19	-1.85867 +05	20	-3.14879 +05	40	60	-2.91625 +05	61	-4.91861 +05
0	20	-1.90989 +05	21	-3.23103 +05					

Table 32
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.79 \cdot 10^{-10}$				$\gamma = 1.03 \cdot 10^{-10}$				u_s	$\gamma = 2.79 \cdot 10^{-10}$				$\gamma = 1.03 \cdot 10^{-10}$					
	Y	$u_B = -22$	Y	$u_B = -23$	Y	$u_B = -22$	Y	$u_B = -23$		Y	$u_B = -22$	Y	$u_B = -23$	Y	$u_B = -22$	Y	$u_B = -23$		
-40	-18	9.70327 +08	-17	9.70325 +08	1	23	-5.58846 +05	24	-9.42194 +05	2	24	-5.71470 +05	25	-9.62559 +05	3	25	-5.83821 +05	26	-9.82504 +05
-39	-17	5.88532 +08	-16	5.88529 +08	4	26	-5.95918 +05	27	-1.00205 +06	5	27	-6.07776 +05	28	-1.02123 +06	6	28	-6.19407 +05	29	-1.04005 +06
-38	-16	3.56961 +08	-15	3.56959 +08	7	29	-6.30825 +05	30	-1.05854 +06	8	30	-6.42041 +05	31	-1.07672 +06	9	31	-6.53065 +05	32	-1.09459 +06
-37	-15	2.16506 +08	-14	2.16504 +08	10	32	-6.63907 +05	33	-1.11218 +06	11	33	-6.74576 +05	34	-1.12950 +06	12	34	-6.85079 +05	35	-1.14656 +06
-36	-14	1.31316 +08	-13	1.31313 +08	13	35	-6.95424 +05	36	-1.16336 +06	14	36	-7.05617 +05	37	-1.17993 +06	15	37	-7.15667 +05	38	-1.19627 +06
-35	-13	7.96454 +07	-12	7.96417 +07	16	38	-7.25577 +05	39	-1.21239 +06	17	39	-7.35354 +05	40	-1.22830 +06	18	40	-7.45003 +05	41	-1.24401 +06
-34	-12	4.83051 +07	-11	4.83004 +07	19	41	-7.54526 +05	42	-1.25952 +06	20	42	-7.63924 +05	43	-1.27484 +06	21	43	-7.73193 +05	44	-1.28996 +06
-33	-11	2.92956 +07	-10	2.92894 +07	22	44	-7.82310 +05	45	-1.30489 +06	23	45	-7.91215 +05	46	-1.31959 +06	24	46	-7.99757 +05	47	-1.33395 +06
-32	-10	1.77649 +07	-9	1.77566 +07	25	47	-8.07619 +05	48	-1.34776 +06	26	48	-8.14310 +05	49	-1.36050 +06	27	49	-8.19416 +05	50	-1.37140 +06
-31	-9	1.07699 +07	-8	1.07584 +07	28	50	-8.22928 +05	51	-1.37975 +06	29	51	-8.25185 +05	52	-1.38552 +06	30	52	-8.26587 +05	53	-1.38924 +06
-30	-8	6.52533 +06	-7	6.50949 +06	31	53	-8.27445 +05	54	-1.39155 +06	32	54	-8.27967 +05	55	-1.39296 +06	33	55	-8.28285 +05	56	-1.39382 +06
-29	-7	3.94820 +06	-6	3.92631 +06	34	56	-8.28477 +05	57	-1.39435 +06	35	57	-8.28594 +05	58	-1.39466 +06	36	58	-8.28665 +05	59	-1.39486 +06
-28	-6	2.38142 +06	-5	2.35143 +06	37	59	-8.28708 +05	60	-1.39497 +06	38	60	-8.28734 +05	61	-1.39504 +06	39	61	-8.28749 +05	62	-1.39509 +06
-27	-5	1.42621 +06	-4	1.38577 +06	40	62	-8.28759 +05	63	-1.39511 +06	41	63								
-26	-4	8.40516 +05	-3	7.87180 +05															
-25	-3	4.77449 +05	-2	4.08967 +05															
-24	-2	2.48051 +05	-1	1.62672 +05															
-23	-1	9.86659 +04	0	0.00000 -00															
-22	0	0.00000 -00	1	-1.15094 +05															
-21	1	-6.98085 +04	2	-2.05714 +05															
-20	2	-1.24771 +05	3	-2.78010 +05															
-19	3	-1.68622 +05	4	-3.38350 +05															
-18	4	-2.05219 +05	5	-3.90542 +05															
-17	5	-2.36875 +05	6	-4.36926 +05															
-16	6	-2.65009 +05	7	-4.78989 +05															
-15	7	-2.90522 +05	8	-5.17713 +05															
-14	8	-3.14009 +05	9	-5.53771 +05															
-13	9	-3.35879 +05	10	-5.87642 +05															
-12	10	-3.56423 +05	11	-6.19680 +05															
-11	11	-3.75855 +05	12	-6.50153 +05															
-10	12	-3.94337 +05	13	-6.79269 +05															
-9	13	-4.11997 +05	14	-7.07196 +05															
-8	14	-4.28936 +05	15	-7.34067 +05															
-7	15	-4.45234 +05	16	-7.59995 +05															
-6	16	-4.60960 +05	17	-7.85072 +05															
-5	17	-4.76170 +05	18	-8.09377 +05															
-4	18	-4.90912 +05	19	-8.32977 +05															
-3	19	-5.05226 +05	20	-8.55930 +05															
-2	20	-5.19148 +05	21	-8.78287 +05															
-1	21	-5.32708 +05	22	-9.00091 +05															
0	22	-5.45933 +05	23	-9.21382 +05															

Table 33
 $G(u_B, u_e)$ Function

u_s	$\gamma = 3.77 \cdot 10^{-11}$			$\gamma = 1.39 \cdot 10^{-11}$			u_s	$\gamma = 3.77 \cdot 10^{-11}$			$\gamma = 1.39 \cdot 10^{-11}$		
	Y	$u_B = -24$	Y	$u_B = -25$	Y	$u_B = -24$		Y	$u_B = -24$	Y	$u_B = -25$		
-40	-16	9.70321 +08	-15	9.70315 +08	1	25	-1.58699 +06	26	-2.67072 +06				
-39	-15	5.88526 +08	-14	5.88518 +08	2	26	-1.61987 +06	27	-2.72386 +06				
-38	-14	3.56954 +08	-13	3.56946 +08	3	27	-1.65210 +06	28	-2.77599 +06				
-37	-13	2.16498 +08	-12	2.16488 +08	4	28	-1.68372 +06	29	-2.82716 +06				
-36	-12	1.31307 +08	-11	1.31294 +08	5	29	-1.71476 +06	30	-2.87743 +06				
-35	-11	7.96339 +07	-10	7.96170 +07	6	30	-1.74525 +06	31	-2.92683 +06				
-34	-10	4.82901 +07	-9	4.82674 +07	7	31	-1.77521 +06	32	-2.97542 +06				
-33	-9	2.92756 +07	-8	2.92445 +07	8	32	-1.80468 +06	33	-3.02324 +06				
-32	-8	1.77377 +07	-7	1.76946 +07	9	33	-1.83368 +06	34	-3.07031 +06				
-31	-7	1.07323 +07	-6	1.06728 +07	10	34	-1.86223 +06	35	-3.11667 +06				
-30	-6	6.47339 +06	-5	6.39186 +06	11	35	-1.89035 +06	36	-3.16236 +06				
-29	-5	3.87686 +06	-4	3.76693 +06	12	36	-1.91806 +06	37	-3.20739 +06				
-28	-4	2.28476 +06	-3	2.13977 +06	13	37	-1.94538 +06	38	-3.25181 +06				
-27	-3	1.29784 +06	-2	1.11168 +06	14	38	-1.97232 +06	39	-3.29563 +06				
-26	-2	6.74272 +05	-1	4.42190 +05	15	39	-1.99890 +06	40	-3.33888 +06				
-25	-1	2.68202 +05	0	0.00000 -00	16	40	-2.02513 +06	41	-3.38157 +06				
-24	0	0.00000 -00	1	-3.12860 +05	17	41	-2.05103 +06	42	-4.42374 +06				
-23	1	-1.89759 +05	2	-5.59188 +05	18	42	-2.07660 +06	43	-3.46539 +06				
-22	2	-3.39165 +05	3	-7.55711 +05	19	43	-2.10186 +06	44	-3.50656 +06				
-21	3	-4.58362 +05	4	-9.19731 +05	20	44	-2.12683 +06	45	-3.54724 +06				
-20	4	-5.57845 +05	5	-1.06160 +06	21	45	-2.15150 +06	46	-3.58746 +06				
-19	5	-6.43894 +05	6	-1.18768 +06	22	46	-2.17587 +06	47	-3.62723 +06				
-18	6	-7.20369 +05	7	-1.30202 +06	23	47	-2.19994 +06	48	-3.66654 +06				
-17	7	-7.89720 +05	8	-1.40729 +06	24	48	-2.22365 +06	49	-3.70538 +06				
-16	8	-8.53565 +05	9	-1.50530 +06	25	49	-2.24685 +06	50	-3.74367 +06				
-15	9	-9.13014 +05	10	-1.59737 +06	26	50	-2.26917 +06	51	-3.78117 +06				
-14	10	-9.68858 +05	11	-1.68446 +06	27	51	-2.28984 +06	52	-3.81730 +06				
-13	11	-1.02168 +06	12	-1.76729 +06	28	52	-2.30759 +06	53	-3.85084 +06				
-12	12	-1.07192 +06	13	-1.84644 +06	29	53	-2.32126 +06	54	-3.87975 +06				
-11	13	-1.11992 +06	14	-1.92235 +06	30	54	-2.33074 +06	55	-3.90214 +06				
-10	14	-1.16596 +06	15	-1.99540 +06	31	55	-2.33686 +06	56	-3.91772 +06				
-9	15	-1.21027 +06	16	-2.06588 +06	32	56	-2.34067 +06	57	-3.92779 +06				
-8	16	-1.25302 +06	17	-2.13404 +06	33	57	-2.34300 +06	58	-3.93406 +06				
-7	17	-1.29436 +06	18	-2.20011 +06	34	58	-2.34442 +06	59	-3.93790 +06				
-6	18	-1.33443 +06	19	-2.26426 +06	35	59	-2.34528 +06	60	-3.94024 +06				
-5	19	-1.37334 +06	20	-2.32666 +06	36	60	-2.34580 +06	61	-3.94166 +06				
-4	20	-1.41119 +06	21	-2.38743 +06	37	61	-2.34612 +06	62	-3.94252 +06				
-3	21	-1.44805 +06	22	-2.44670 +06	38	62	-2.34631 +06	63	-3.94305 +06				
-2	22	-1.48400 +06	23	-2.50457 +06	39	63	-2.34643 +06	64	-3.94337 +06				
-1	23	-1.51910 +06	24	-2.56115 +06	40	64	-2.34650 +06	65	-3.94356 +06				
0	24	-1.55341 +06	25	-2.61650 +06									

Table 34
 $G(u_s, u_B)$ Function

u_s	$\gamma = 5.11 \cdot 10^{-12}$			$\gamma = 1.88 \cdot 10^{-12}$			u_s	$\gamma = 5.11 \cdot 10^{-12}$			$\gamma = 1.88 \cdot 10^{-12}$		
	Y	$u_B = -26$	Y	$u_B = -27$	Y	$u_B = -27$		Y	$u_B = -26$	Y	$u_B = -27$		
-40	-14	9.70303 +08	-13	9.70280 +08	1	27	-4.49089 +06	28	-7.54593 +06				
-39	-13	5.88505 +08	-12	5.88477 +08	2	28	-4.57683 +06	29	-7.68503 +06				
-38	-12	3.59629 +08	-11	3.56894 +08	3	29	-4.66120 +06	30	-7.82167 +06				
-37	-11	2.16467 +08	-10	2.16421 +08	4	30	-4.74408 +06	31	-7.95597 +06				
-36	-10	1.31266 +08	-9	1.31204 +08	5	31	-4.82554 +06	32	-8.08805 +06				
-35	-9	7.95795 +07	-8	7.94948 +07	6	32	-4.90565 +06	33	-8.21801 +06				
-34	-8	4.82160 +07	-7	4.80989 +07	7	33	-4.89448 +06	34	-8.34597 +06				
-33	-7	2.91735 +07	-6	2.90117 +07	8	34	-5.06208 +06	35	-8.47199 +06				
-32	-6	1.75965 +07	-5	1.73748 +07	9	35	-5.13852 +06	36	-8.59618 +06				
-31	-5	1.05384 +07	-4	1.02395 +07	10	36	-5.21385 +06	37	-8.71861 +06				
-30	-4	6.21062 +06	-3	5.81652 +06	11	37	-5.28810 +06	38	-8.83934 +06				
-29	-3	3.52790 +06	-2	3.02188 +06	12	38	-5.36133 +06	39	-8.95846 +06				
-28	-2	1.83286 +06	-1	1.20199 +06	13	39	-5.43358 +06	40	-9.07602 +06				
-27	-1	7.29048 +05	0	0.00000 -00	14	40	-5.50488 +06	41	-9.19208 +06				
-26	0	0.00000 -00	1	-8.50441 +05	15	41	-5.57528 +06	42	-9.30670 +06				
-25	1	-5.15819 +05	2	-1.52003 +06	16	42	-5.64480 +06	43	-9.41993 +06				
-24	2	-9.21946 +05	3	-2.05423 +06	17	43	-5.71347 +06	44	-9.53182 +06				
-23	3	-1.24595 +06	4	-2.50008 +06	18	44	-5.78134 +06	45	-9.64241 +06				
-22	4	-1.51638 +06	5	-2.88573 +06	19	45	-5.84842 +06	46	-9.75176 +06				
-21	5	-1.75028 +06	6	-3.22847 +06	20	46	-5.91474 +06	47	-9.85989 +06				
-20	6	-1.95816 +06	7	-3.53928 +06	21	47	-5.98032 +06	48	-9.96686 +06				
-19	7	-2.14668 +06	8	-3.82541 +06	22	48	-6.04519 +06	49	-1.00727 +07				
-18	8	-2.32023 +06	9	-4.09184 +06	23	49	-6.10937 +06	50	-1.01774 +07				
-17	9	-2.48183 +06	10	-4.34212 +06	24	50	-6.17284 +06	51	-1.02810 +07				
-16	10	-2.63363 +06	11	-4.57885 +06	25	51	-6.23557 +06	52	-1.03836 +07				
-15	11	-2.77721 +06	12	-4.80401 +06	26	52	-6.29745 +06	53	-1.04850 +07				
-14	12	-2.91378 +06	13	-5.01916 +06	27	53	-6.35810 +06	54	-1.05851 +07				
-13	13	-3.04427 +06	14	-5.22551 +06	28	54	-6.41662 +06	55	-1.06832 +07				
-12	14	-3.16943 +06	15	-5.42406 +06	29	55	-6.47107 +06	56	-1.07781 +07				
-11	15	-3.28986 +06	16	-5.61565 +06	30	56	-6.51819 +06	57	-1.08665 +07				
-10	16	-3.40606 +06	17	-5.80094 +06	31	57	-6.55484 +06	58	-1.09433 +07				
-9	17	-3.51845 +06	18	-5.98053 +06	32	58	-6.58043 +06	59	-1.10033 +07				
-8	18	-3.62737 +06	19	-6.15491 +06	33	59	-6.59701 +06	60	-1.10454 +07				
-7	19	-3.73314 +06	20	-6.32452 +06	34	60	-6.60734 +06	61	-1.10727 +07				
-6	20	-3.83601 +06	21	-6.48971 +06	35	61	-6.61368 +06	62	-1.10897 +07				
-5	21	-3.93621 +06	22	-6.65082 +06	36	62	-6.61754 +06	63	-1.11001 +07				
-4	22	-4.03393 +06	23	-6.80814 +06	37	63	-6.61988 +06	64	-1.11065 +07				
-3	23	-4.12935 +06	24	-6.96193 +06	38	64	-6.62130 +06	65	-1.11104 +07				
-2	24	-4.22262 +06	25	-7.11240 +06	39	65	-6.62217 +06	66	-1.11127 +07				
-1	25	-4.31389 +06	26	-7.25977 +06	40	66	-6.62269 +06	67	-1.11141 +07				
0	26	-4.40327 +06	27	-7.40423 +06									

Table 35
 $G(u_s, u_B)$ Function

u_s	$\gamma = 6.91 \cdot 10^{-13}$			$\gamma = 2.54 \cdot 10^{-13}$			u_s	$\gamma = 6.91 \cdot 10^{-13}$			$\gamma = 2.54 \cdot 10^{-13}$		
	Y	$u_B = -28$	Y	$u_B = -29$	Y	$u_B = -28$		Y	$u_B = -29$	Y	$u_B = -29$		
-40	-12	9.70235 +08	-11	9.70139 +08	1	29	-1.26704 +07	30	-2.12615 +07				
-39	-11	5.88419 +08	-10	5.88294 +08	2	30	-1.28957 +07	31	-2.16265 +07				
-38	-10	3.56818 +08	-9	3.56650 +08	3	31	-1.31171 +07	32	-2.19856 +07				
-37	-9	2.16319 +08	-8	2.16089 +08	4	32	-1.33349 +07	33	-2.23388 +07				
-36	-8	1.31064 +08	-7	1.30746 +08	5	33	-1.35492 +07	34	-2.26867 +07				
-35	-7	7.93018 +07	-6	7.88620 +07	6	34	-1.37601 +07	35	-2.30292 +07				
-34	-6	4.78322 +07	-5	4.72298 +07	7	35	-1.39679 +07	36	-2.33668 +07				
-33	-5	2.86463 +07	-4	2.78340 +07	8	36	-1.41727 +07	37	-2.36996 +07				
-32	-4	1.68822 +07	-3	1.58109 +07	9	37	-1.43745 +07	38	-2.40278 +07				
-31	-3	9.58982 +06	-2	8.21432 +06	10	38	-1.45736 +07	39	-2.43516 +07				
-30	-2	4.98223 +06	-1	3.26736 +06	11	39	-1.47700 +07	40	-2.46711 +07				
-29	-1	1.98175 +06	0	0.00000 -00	12	40	-1.46938 +07	41	-2.49866 +07				
-28	0	0.00000 -00	1	-2.31174 +06	13	41	-1.51551 +07	42	-2.52982 +07				
-27	1	-1.40214 +06	2	-4.13187 +06	14	42	-1.53441 +07	43	-2.56060 +07				
-26	2	-2.50610 +06	3	-5.58399 +06	15	43	-1.55308 +07	44	-2.59101 +07				
-25	3	-3.38686 +06	4	-6.79594 +06	16	44	-1.57153 +07	45	-2.62108 +07				
-24	4	-4.12195 +06	5	-7.84424 +06	17	45	-1.58976 +07	46	-2.65080 +07				
-23	5	-4.75777 +06	6	-8.77589 +06	18	46	-1.60779 +07	47	-2.68019 +07				
-22	6	-5.32285 +06	7	-9.62076 +06	19	47	-1.62562 +07	48	-2.70927 +07				
-21	7	-5.83529 +06	8	-1.03985 +07	20	48	-1.64325 +07	49	-2.73804 +07				
-20	8	-6.30704 +06	9	-1.11228 +07	21	49	-1.66070 +07	50	-2.76651 +07				
-19	9	-6.74631 +06	10	-1.18031 +07	22	50	-1.67797 +07	51	-2.79469 +07				
-18	10	-7.15895 +06	11	-1.24466 +07	23	51	-1.69506 +07	52	-2.82259 +07				
-17	11	-7.54925 +06	12	-1.30586 +07	24	52	-1.71199 +07	53	-2.85022 +07				
-16	12	-7.92048 +06	13	-1.36434 +07	25	53	-1.72874 +07	54	-2.87758 +07				
-15	13	-8.27519 +06	14	-1.42044 +07	26	54	-1.74532 +07	55	-2.90468 +07				
-14	14	-8.61541 +06	15	-1.47441 +07	27	55	-1.76173 +07	56	-2.93152 +07				
-13	15	-8.94277 +06	16	-1.52649 +07	28	56	-1.77793 +07	57	-2.95808 +07				
-12	16	-9.25864 +06	17	-1.57686 +07	29	57	-1.79383 +07	58	-2.98431 +07				
-11	17	-9.56414 +06	18	-1.62567 +07	30	58	-1.80921 +07	59	-3.01008 +07				
-10	18	-9.86023 +06	19	-1.67308 +07	31	59	-1.82358 +07	60	-3.03503 +07				
-9	19	-1.01477 +07	20	-1.71918 +07	32	60	-1.83610 +07	61	-3.05840 +07				
-8	20	-1.04273 +07	21	-1.76408 +07	33	61	-1.84593 +07	62	-3.07882 +07				
-7	21	-1.06997 +07	22	-1.80788 +07	34	62	-1.85283 +07	63	-3.09491 +07				
-6	22	-1.09653 +07	23	-1.85064 +07	35	63	-1.85733 +07	64	-3.10626 +07				
-5	23	-1.12247 +07	24	-1.89244 +07	36	64	-1.86013 +07	65	-3.11366 +07				
-4	24	-1.14782 +07	25	-1.93335 +07	37	65	-1.86186 +07	66	-3.11828 +07				
-3	25	-1.17263 +07	26	-1.97341 +07	38	66	-1.86290 +07	67	-3.12112 +07				
-2	26	-1.19693 +07	27	-2.01267 +07	39	67	-1.86354 +07	68	-3.12285 +07				
-1	27	-1.22075 +07	28	-2.05119 +07	40	68	-1.86393 +07	69	-3.12390 +07				
0	28	-1.24411 +07	29	-2.08900 +07									

Table 36
 $G(u_s, u_B)$ Function

u_s	$\gamma = 9.36 \cdot 10^{-14}$		$\gamma = 3.44 \cdot 10^{-14}$		u_s	$\gamma = 9.36 \cdot 10^{-14}$		$\gamma = 3.44 \cdot 10^{-14}$	
	Y	$u_B = -30$	Y	$u_B = -31$		Y	$u_B = -30$	Y	$u_B = -31$
-40	-10	9.69934 +08	-9	9.69477 +08	1	31	-3.56561 +07	32	-5.97630 +07
-39	-9	5.88017 +08	-8	5.87392 +08	2	32	-3.62481 +07	33	-6.07234 +07
-38	-8	3.56271 +08	-7	3.55406 +08	3	33	-3.68306 +07	34	-6.16688 +07
-37	-7	2.15564 +08	-6	2.14369 +08	4	34	-3.74040 +07	35	-6.26000 +07
-36	-6	1.30021 +08	-5	1.28384 +08	5	35	-3.79688 +07	36	-6.35177 +07
-35	-5	7.78688 +07	-4	7.56608 +07	6	36	-3.85254 +07	37	-6.44223 +07
-34	-4	4.58906 +07	-3	4.29785 +07	7	37	-3.90741 +07	38	-6.53144 +07
-33	-3	2.60678 +07	-2	2.23288 +07	8	38	-3.96152 +07	39	-6.61945 +07
-32	-2	1.35431 +07	-1	8.88162 +06	9	39	-4.01490 +07	40	-6.70632 +07
-31	-1	5.38698 +06	0	0.00000 -00	10	40	-4.06759 +07	41	-6.79208 +07
-30	0	0.00000 -00	1	-6.28396 +06	11	41	-4.11960 +07	42	-6.87677 +07
-29	1	-3.81141 +06	2	-1.12316 +07	12	42	-4.17097 +07	43	-6.96044 +07
-28	2	-6.81231 +06	3	-1.51788 +07	13	43	-4.22172 +07	44	-7.04311 +07
-27	3	-9.20645 +06	4	-1.84733 +07	14	44	-4.27186 +07	45	-7.12483 +07
-26	4	-1.12046 +07	5	-2.13228 +07	15	45	-4.32143 +07	46	-7.20563 +07
-25	5	-1.29329 +07	6	-2.38553 +07	16	46	-4.37043 +07	47	-7.28553 +07
-24	6	-1.44690 +07	7	-2.61519 +07	17	47	-4.41890 +07	48	-7.36457 +07
-23	7	-1.58619 +07	8	-2.82662 +07	18	48	-4.46684 +07	49	-7.44277 +07
-22	8	-1.71443 +07	9	-3.02349 +07	19	49	-4.51427 +07	50	-7.52017 +07
-21	9	-1.83383 +07	10	-3.20842 +07	20	50	-4.56121 +07	51	-7.59677 +07
-20	10	-1.94600 +07	11	-3.38334 +07	21	51	-4.60767 +07	52	-7.67262 +07
-19	11	-2.05210 +07	12	-3.54971 +07	22	52	-4.65368 +07	53	-7.74772 +07
-18	12	-2.15301 +07	13	-3.70868 +07	23	53	-4.69923 +07	54	-7.82211 +07
-17	13	-2.24943 +07	14	-3.85116 +07	24	54	-4.74435 +07	55	-7.89579 +07
-16	14	-2.34191 +07	15	-4.00787 +07	25	55	-4.78904 +07	56	-7.96880 +07
-15	15	-2.43089 +07	16	-4.14943 +07	26	56	-4.83331 +07	57	-8.04115 +07
-14	16	-2.51676 +07	17	-4.28635 +07	27	57	-4.87718 +07	58	-8.11284 +07
-13	17	-2.59980 +07	18	-4.41905 +07	28	58	-4.92064 +07	59	-8.18390 +07
-12	18	-2.68029 +07	19	-4.54790 +07	29	59	-4.96366 +07	60	-8.25432 +07
-11	19	-2.75844 +07	20	-4.67322 +07	30	60	-5.00618 +07	61	-8.32405 +07
-10	20	-2.83445 +07	21	-4.79528 +07	31	61	-5.04796 +07	62	-8.39299 +07
-9	21	-2.90848 +07	22	-4.91433 +07	32	62	-5.08846 +07	63	-8.46078 +07
-8	22	-2.98069 +07	23	-5.03057 +07	33	63	-5.12645 +07	64	-8.52656 +07
-7	23	-3.05120 +07	24	-5.14421 +07	34	64	-5.15978 +07	65	-8.58836 +07
-6	24	-3.12012 +07	25	-5.25539 +07	35	65	-5.18613 +07	66	-8.64274 +07
-5	25	-3.18756 +07	26	-5.36429 +07	36	66	-5.20478 +07	67	-8.68590 +07
-4	26	-3.25360 +07	27	-5.47102 +07	37	67	-5.21696 +07	68	-8.71654 +07
-3	27	-3.31834 +07	28	-5.57573 +07	38	68	-5.22458 +07	69	-8.73659 +07
-2	28	-3.38185 +07	29	-5.67851 +07	39	69	-6.22925 +07	70	-8.74915 +07
-1	29	-3.44419 +07	30	-5.77947 +07	40	70	-5.23210 +07	71	-8.75686 +07
0	30	-3.50542 +07	31	-5.87871 +07					

Table 37
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.27 \cdot 10^{-14}$				$\gamma = 4.66 \cdot 10^{-15}$				u_s	$\gamma = 1.27 \cdot 10^{-14}$				$\gamma = 4.66 \cdot 10^{-15}$			
	Y	$u_B = -32$	Y	$u_B = -33$	Y	$u_B = -32$	Y	$u_B = -33$		Y	$u_B = -32$	Y	$u_B = -33$	Y	$u_B = -32$	Y	$u_B = -33$
-40	-8	9.68445 +08	-7	9.66094 +08	1	33	-1.00116 +08	34	-1.67633 +08								
-39	-7	5.85965 +08	-6	5.82716 +08	2	34	-1.01674 +08	35	-1.70164 +08								
-38	-6	3.53435 +08	-5	3.48983 +08	3	35	-1.03210 +08	36	-1.72659 +08								
-37	-5	2.11669 +08	-4	2.05667 +08	4	36	-1.04723 +08	37	-1.75118 +08								
-36	-4	1.24743 +08	-3	1.16828 +08	5	37	-1.06214 +08	38	-1.77543 +08								
-35	-3	7.08597 +07	-2	6.06960 +07	6	38	-1.07685 +08	39	-1.79935 +08								
-34	-2	3.68140 +07	-1	2.41427 +07	7	39	-1.09136 +08	40	-1.82296 +08								
-33	-1	1.46433 +07	0	0.00000 -00	8	40	-1.10568 +08	41	-1.84627 +08								
-32	0	0.00000 -00	1	-1.70815 +07	9	41	-1.11982 +08	42	-1.89630 +08								
-31	1	-1.03605 +07	2	-3.05306 +07	10	42	-1.13387 +08	43	-1.89204 +08								
-30	2	-1.85177 +07	3	-4.12604 +07	11	43	-1.14758 +08	44	-1.91451 +08								
-29	3	-2.50257 +07	4	-5.02156 +07	12	44	-1.16121 +08	45	-1.93673 +08								
-28	4	-3.04573 +07	5	-5.79615 +07	13	45	-1.17468 +08	46	-1.95869 +08								
-27	5	-3.51554 +07	6	-6.48456 +07	14	46	-1.18800 +08	47	-1.98041 +08								
-26	6	-3.93308 +07	7	-7.10883 +07	15	47	-1.20118 +08	48	-2.00189 +08								
-25	7	-4.31172 +07	8	-7.68355 +07	16	48	-1.21421 +08	49	-2.02315 +08								
-24	8	-4.66031 +07	9	-8.21869 +07	17	49	-1.22710 +08	50	-2.04419 +08								
-23	9	-4.98489 +07	10	-8.72139 +07	18	50	-1.23986 +08	51	-2.06501 +08								
-22	10	-5.28979 +07	11	-9.19687 +07	19	51	-1.25249 +08	52	-2.08563 +08								
-21	11	-5.57818 +07	12	-9.64912 +07	20	52	-1.26500 +08	53	-2.10605 +08								
-20	12	-5.85249 +07	13	-1.00812 +08	21	53	-1.27738 +08	54	-2.12627 +08								
-19	13	-6.11458 +07	14	-1.04957 +08	22	54	-1.28964 +08	55	-2.14630 +08								
-18	14	-6.36597 +07	15	-1.08945 +08	23	55	-1.30179 +08	56	-2.16614 +08								
-17	15	-6.60786 +07	16	-1.12793 +08	24	56	-1.31383 +08	57	-2.18581 +08								
-16	16	-6.84126 +07	17	-1.16515 +08	25	57	-1.32576 +08	58	-2.20530 +08								
-15	17	-7.06699 +07	18	-1.20122 +08	26	58	-1.33758 +08	59	-2.22462 +08								
-14	18	-7.28578 +07	19	-1.23624 +08	27	59	-1.34930 +08	60	-2.24377 +08								
-13	19	-7.49822 +07	20	-1.27031 +08	28	60	-1.36091 +08	61	-2.26277 +08								
-12	20	-7.70484 +07	21	-1.30349 +08	29	61	-1.37243 +08	62	-2.28160 +08								
-11	21	-7.90608 +07	22	-1.33585 +08	30	62	-1.38385 +08	63	-2.30028 +08								
-10	22	-8.10236 +07	23	-1.36745 +08	31	63	-1.39516 +08	64	-2.31880 +08								
-9	23	-8.29402 +07	24	-1.39834 +08	32	64	-1.40634 +08	65	-2.33715 +08								
-8	24	-8.48136 +07	25	-1.42856 +08	33	65	-1.41735 +08	66	-2.35530 +08								
-7	25	-8.66468 +07	26	-1.45816 +08	34	66	-1.42803 +08	67	-2.37317 +08								
-6	26	-8.84422 +07	27	-1.48718 +08	35	67	-1.43809 +08	68	-2.39054 +08								
-5	27	-9.02020 +07	28	-1.51564 +08	36	68	-1.44697 +08	69	-2.40692 +08								
-4	28	-9.19282 +07	29	-1.54358 +08	37	69	-1.45404 +08	70	-2.42141 +08								
-3	29	-9.36228 +07	30	-1.57102 +08	38	70	-1.45907 +08	71	-2.43299 +08								
-2	30	-9.52874 +07	31	-1.59800 +08	39	71	-1.46237 +08	72	-2.44126 +08								
-1	31	-9.69235 +07	32	-1.62452 +08	40	72	-1.46444 +08	73	-2.44670 +08								
0	32	-9.85326 +07	33	-1.65063 +08													

Table 38
 $G(u_s, u_B)$ Function

u_s	$\gamma = 1.71 \cdot 10^{-15}$		$\gamma = 6.30 \cdot 10^{-16}$		u_s	$\gamma = 1.71 \cdot 10^{-15}$		$\gamma = 6.30 \cdot 10^{-16}$	
	Y	$u_B = -34$	Y	$u_B = -35$		Y	$u_B = -34$	Y	$u_B = -35$
-40	-6	9.60736 +08	-5	9.48636 +08	1	35	-2.80554 +08	36	-4.69335 +08
-39	-5	5.75377 +08	-4	5.59062 +08	2	36	-2.84666 +08	37	-4.76020 +08
-38	-4	3.39088 +08	-3	3.17571 +08	3	37	-2.88720 +08	38	-4.82612 +08
-37	-3	1.92616 +08	-2	1.64989 +08	4	38	-2.92719 +08	39	-4.89115 +08
-36	-2	1.00070 +08	-1	6.56268 +07	5	39	-2.96663 +08	40	-4.95534 +08
-35	-1	3.98047 +07	0	0.00000 -00	6	40	-3.00556 +08	41	-5.01870 +08
-34	0	0.00000 -00	1	-4.64325 +07	7	41	-3.04400 +08	42	-5.08128 +08
-33	1	-2.81627 +07	2	-8.29909 +07	8	42	-3.08195 +08	43	-5.14310 +08
-32	2	-5.03365 +07	3	-1.12157 +08	9	43	-3.11945 +08	44	-5.20419 +08
-31	3	-6.80269 +07	4	-1.36500 +08	10	44	-3.15650 +08	45	-5.26458 +08
-30	4	-8.27915 +07	5	-1.57555 +08	11	45	-3.19313 +08	46	-5.32428 +08
-29	5	-9.55624 +07	6	-1.76268 +08	12	46	-3.22934 +08	47	-5.38332 +08
-28	6	-1.06912 +08	7	-1.93238 +08	13	47	-3.26515 +08	48	-5.44172 +08
-27	7	-1.17204 +08	8	-2.08860 +08	14	48	-3.30057 +08	49	-5.49951 +08
-26	8	-1.26680 +08	9	-2.23407 +08	15	49	-3.33562 +08	50	-5.55669 +08
-25	9	-1.35503 +08	10	-2.37072 +08	16	50	-3.37030 +08	51	-5.61330 +08
-24	10	-1.43791 +08	11	-2.49996 +08	17	51	-3.40463 +08	52	-5.66934 +08
-23	11	-1.51630 +08	12	-2.62290 +08	18	52	-3.43863 +08	53	-5.72483 +08
-22	12	-1.59087 +08	13	-2.74036 +08	19	53	-3.47229 +08	54	-5.77980 +08
-21	13	-1.66211 +08	14	-2.85303 +08	20	54	-3.50562 +08	55	-5.83425 +08
-20	14	-1.73045 +08	15	-2.96144 +08	21	55	-3.53865 +08	56	-5.88819 +08
-19	15	-1.79620 +08	16	-3.06604 +08	22	56	-3.57137 +08	57	-5.94165 +08
-18	16	-1.85964 +08	17	-3.16720 +08	23	57	-3.60379 +08	58	-5.99463 +08
-17	17	-1.92100 +08	18	-3.26526 +08	24	58	-3.63593 +08	59	-6.04715 +08
-16	18	-1.98048 +08	19	-3.36047 +08	25	59	-3.66778 +08	60	-6.09922 +08
-15	19	-2.03822 +08	20	-3.45307 +08	26	60	-3.69936 +08	61	-6.15085 +08
-14	20	-2.09439 +08	21	-3.54326 +08	27	61	-3.73068 +08	62	-6.20205 +08
-13	21	-2.14909 +08	22	-3.63122 +08	28	62	-3.76173 +08	63	-6.25283 +08
-12	22	-2.20245 +08	23	-3.71712 +08	29	63	-3.79253 +08	64	-6.30321 +08
-11	23	-2.25454 +08	24	-3.80108 +08	30	64	-3.82308 +08	65	-6.35318 +08
-10	24	-2.30547 +08	25	-3.88324 +08	31	65	-3.85339 +08	66	-6.40277 +08
-9	25	-2.35530 +08	26	-3.96370 +08	32	66	-3.88345 +08	67	-6.45196 +08
-8	26	-2.40410 +08	27	-4.04257 +08	33	67	-3.91324 +08	68	-6.50077 +08
-7	27	-2.45194 +08	28	-4.11993 +08	34	68	-3.94272 +08	69	-6.54916 +08
-6	28	-2.49887 +08	29	-4.19588 +08	35	69	-3.97176 +08	70	-6.59706 +08
-5	29	-2.54493 +08	30	-4.27048 +08	36	70	-4.00000 +08	71	-6.64425 +08
-4	30	-2.59018 +08	31	-4.34381 +08	37	71	-4.02666 +08	72	-6.69019 +08
-3	31	-2.63465 +08	32	-4.41592 +08	38	72	-4.05032 +08	73	-6.73363 +08
-2	32	-2.67839 +08	33	-4.48688 +08	39	73	-4.06929 +08	74	-6.77226 +08
-1	33	-2.72143 +08	34	-4.55674 +08	40	74	-4.08289 +08	75	-6.80334 +08
0	34	-2.76380 +08	35	-4.62555 +08					

Table 39
 $G(u_s, u_B)$ Function

u_s	$\gamma = 2.32 \cdot 10^{-16}$		$\gamma = 8.53 \cdot 10^{-17}$		u_s	$\gamma = 2.32 \cdot 10^{-16}$		$\gamma = 8.53 \cdot 10^{-17}$	
	Y	$u_B = -36$	Y	$u_B = -37$		Y	$u_B = -36$	Y	$u_B = -37$
-40	-4	9.21738 +08	-3	8.63248 +08	1	37	-7.84824 +08	38	-1.31187 +09
-39	-3	5.23586 +08	-2	4.48486 +08	2	38	-7.95692 +08	39	-1.32955 +09
-38	-2	2.72021 +08	-1	1.78392 +08	3	39	-8.06415 +08	40	-1.34700 +09
-37	-1	1.08200 +08	0	0.00000 -00	4	40	-8.16997 +08	41	-1.36422 +09
-36	0	0.00000 -00	1	-1.26216 +08	5	41	-8.27445 +08	42	-1.38123 +09
-35	1	-7.65543 +07	2	-2.25592 +08	6	42	-8.37762 +08	43	-1.39804 +09
-34	2	-1.36828 +08	3	-3.04875 +08	7	43	-8.47955 +08	44	-1.41464 +09
-33	3	-1.84916 +08	4	-3.71046 +08	8	44	-8.58027 +08	45	-1.43106 +09
-32	4	-2.25050 +08	5	-4.28281 +08	9	45	-8.67982 +08	46	-1.44729 +09
-31	5	-2.59765 +08	6	-4.79147 +08	10	46	-8.77825 +08	47	-1.46333 +09
-30	6	-2.90617 +08	7	-5.25276 +08	11	47	-8.87559 +08	48	-1.47921 +09
-29	7	-3.18596 +08	8	-5.67742 +08	12	48	-8.97188 +08	49	-1.49492 +09
-28	8	-3.44353 +08	9	-6.07284 +08	13	49	-9.06716 +08	50	-1.51046 +09
-27	9	-3.68336 +08	10	-6.44428 +08	14	50	-9.16144 +08	51	-1.52585 +09
-26	10	-3.90865 +08	11	-6.79562 +08	15	51	-9.25477 +08	52	-1.54108 +09
-25	11	-4.12175 +08	12	-7.12979 +08	16	52	-9.34716 +08	53	-1.55617 +09
-24	12	-4.32443 +08	13	-7.44909 +08	17	53	-9.43866 +08	54	-1.57111 +09
-23	13	-4.51810 +08	14	-7.75534 +08	18	54	-9.52928 +08	55	-1.58591 +09
-22	14	-4.70385 +08	15	-8.05003 +08	19	55	-9.61905 +08	56	-1.60057 +09
-21	15	-4.88259 +08	16	-8.33436 +08	20	56	-9.70799 +08	57	-1.61510 +09
-20	16	-5.05504 +08	17	-8.60936 +08	21	57	-9.79613 +08	58	-1.62951 +09
-19	17	-5.22184 +08	18	-8.87590 +08	22	58	-9.88348 +08	59	-1.64378 +09
-18	18	-5.38350 +08	19	-9.13470 +08	23	59	-9.97007 +08	60	-1.65794 +09
-17	19	-5.54048 +08	20	-9.38641 +08	24	60	-1.00559 +09	61	-1.67197 +09
-16	20	-5.69315 +08	21	-9.63158 +08	25	61	-1.01410 +09	62	-1.68589 +09
-15	21	-5.84185 +08	22	-9.87070 +08	26	62	-1.02254 +09	63	-1.69969 +09
-14	22	-5.98688 +08	23	-1.01041 +09	27	63	-1.03091 +09	64	-1.71339 +09
-13	23	-6.12849 +08	24	-1.03324 +09	28	64	-1.03922 +09	65	-1.72697 +09
-12	24	-6.26693 +08	25	-1.05557 +09	29	65	-1.04746 +09	66	-1.74045 +09
-11	25	-6.40238 +08	26	-1.07744 +09	30	66	-1.05564 +09	67	-1.75383 +09
-10	26	-6.53504 +08	27	-1.09888 +09	31	67	-1.06375 +09	68	-1.76710 +09
-9	27	-6.66507 +08	28	-1.11991 +09	32	68	-1.07180 +09	69	-1.78028 +09
-8	28	-6.79263 +08	29	-1.14056 +09	33	69	-1.07979 +09	70	-1.79336 +09
-7	29	-6.91784 +08	30	-1.16083 +09	34	70	-1.08772 +09	71	-1.80634 +09
-6	30	-7.04084 +08	31	-1.18077 +09	35	71	-1.09558 +09	72	-1.81923 +09
-5	31	-7.16173 +08	32	-1.20037 +09	36	72	-1.10337 +09	73	-1.83201 +09
-4	32	-7.28063 +08	33	-1.21966 +09	37	73	-1.11104 +09	74	-1.84467 +09
-3	33	-7.39762 +08	34	-1.23865 +09	38	74	-1.11852 +09	75	-1.85715 +09
-2	34	-7.51280 +08	35	-1.25735 +09	39	75	-1.12559 +09	76	-1.86932 +09
-1	35	-7.62625 +08	36	-1.27578 +09	40	76	-1.13190 +09	77	-1.88085 +09
0	36	-7.73804 +08	37	-1.29395 +09					

Table 40
 $G(u_s, u_B)$ Function

u_s	$\gamma = 3.14 \cdot 10^{-17}$		$\gamma = 1.15 \cdot 10^{-17}$		u_s	$\gamma = 3.14 \cdot 10^{-17}$		$\gamma = 1.15 \cdot 10^{-17}$	
	Y	$u_B = -38$	Y	$u_B = -39$		Y	$u_B = -38$	Y	$u_B = -39$
-40	-2	7.39429 +08	-1	4.84920 +08	1	39	-2.19206 +09	40	-3.66152 +09
-39	-1	2.94119 +08	0	0.00000 -00	2	40	-2.22083 +09	41	-3.70835 +09
-38	0	0.00000 -00	1	-3.43092 +08	3	41	-2.24922 +09	42	-3.75459 +09
-37	1	-2.08096 +08	2	-6.13224 +08	4	42	-2.27727 +09	43	-3.80027 +09
-36	2	-3.71939 +08	3	-8.28738 +08	5	43	-2.30498 +09	44	-3.84541 +09
-35	3	-5.02655 +08	4	-1.00860 +09	6	44	-2.33236 +09	45	-3.89002 +09
-34	4	-6.11751 +08	5	-1.16418 +09	7	45	-2.35942 +09	46	-3.93414 +09
-33	5	-7.06116 +08	6	-1.30245 +09	8	46	-2.38617 +09	47	-3.97776 +09
-32	6	-7.89981 +08	7	-1.42784 +09	9	47	-2.41263 +09	48	-4.02092 +09
-31	7	-8.66033 +08	8	-1.54328 +09	10	48	-2.43881 +09	49	-4.06361 +09
-30	8	-9.36048 +08	9	-1.65077 +09	11	49	-2.46471 +09	50	-4.10587 +09
-29	9	-1.00124 +09	10	-1.75173 +09	12	50	-2.49033 +09	51	-4.14770 +09
-28	10	-1.06248 +09	11	-1.84724 +09	13	51	-2.51570 +09	52	-4.18911 +09
-27	11	-1.12040 +09	12	-1.93807 +09	14	52	-2.54082 +09	53	-4.23011 +09
-26	12	-1.17550 +09	13	-2.02487 +09	15	53	-2.56569 +09	54	-4.27072 +09
-25	13	-1.22814 +09	14	-2.10812 +09	16	54	-2.59032 +09	55	-4.31096 +09
-24	14	-1.27864 +09	15	-2.18822 +09	17	55	-2.61473 +09	56	-4.35082 +09
-23	15	-1.32722 +09	16	-2.26551 +09	18	56	-2.63890 +09	57	-4.39032 +09
-22	16	-1.37410 +09	17	-2.34026 +09	19	57	-2.66286 +09	58	-4.42947 +09
-21	17	-1.41944 +09	18	-2.41272 +09	20	58	-2.68661 +09	59	-4.46827 +09
-20	18	-1.46338 +09	19	-2.48307 +09	21	59	-2.71014 +09	60	-4.50675 +09
-19	19	-1.50605 +09	20	-2.55149 +09	22	60	-2.73348 +09	61	-4.54490 +09
-18	20	-1.54755 +09	21	-2.61813 +09	23	61	-2.75662 +09	62	-4.58273 +09
-17	21	-1.58798 +09	22	-2.68313 +09	24	62	-2.77956 +09	63	-4.62025 +09
-16	22	-1.62740 +09	23	-2.74660 +09	25	63	-2.80232 +09	64	-4.65748 +09
-15	23	-1.66589 +09	24	-2.80864 +09	26	64	-2.82490 +09	65	-4.69440 +09
-14	24	-1.70352 +09	25	-2.86935 +09	27	65	-2.84730 +09	66	-4.73105 +09
-13	25	-1.74034 +09	26	-2.92880 +09	28	66	-2.86952 +09	67	-4.76741 +09
-12	26	-1.77640 +09	27	-2.98708 +09	29	67	-2.89158 +09	68	-4.80349 +09
-11	27	-1.81175 +09	28	-3.04424 +09	30	68	-2.91346 +09	69	-4.83931 +09
-10	28	-1.84642 +09	29	-3.10036 +09	31	69	-2.93519 +09	70	-4.87486 +09
-9	29	-1.88046 +09	30	-3.15548 +09	32	70	-2.95675 +09	71	-4.91016 +09
-8	30	-1.91389 +09	31	-3.20966 +09	33	71	-2.97816 +09	72	-4.94521 +09
-7	31	-1.94676 +09	32	-3.26295 +09	34	72	-2.99942 +09	73	-4.98001 +09
-6	32	-1.97908 +09	33	-3.31538 +09	35	73	-3.02052 +09	74	-5.01457 +09
-5	33	-2.01088 +09	34	-3.36700 +09	36	74	-3.04147 +09	75	-5.04888 +09
-4	34	-2.04219 +09	35	-3.41784 +09	37	75	-3.06225 +09	76	-5.08296 +09
-3	35	-2.07303 +09	36	-3.46794 +09	38	76	-3.08285 +09	77	-5.11677 +09
-2	36	-2.10341 +09	37	-3.51733 +09	39	77	-3.10316 +09	78	-5.15028 +09
-1	37	-2.13337 +09	38	-3.56604 +09	40	78	-3.12297 +09	79	-5.18334 +09
0	38	-2.16291 +09	39	-3.61410 +09					

Table 41
 $G(u_s, u_B)$ Function

u_s	$\gamma = 4.25 \cdot 10^{-18}$		u_s	$\gamma = 4.25 \cdot 10^{-18}$	
	Y	$u_B = -40$		Y	$u_B = -40$
-40	0	0.00000 -00	1	41	-6.11403 +09
-39	1	7.99498 +08	2	42	-6.19027 +09
-38	2	-1.01103 +09	3	43	-6.26558 +09
-37	3	-1.36635 +09	4	44	-6.34001 +09
-36	4	-1.66291 +09	5	45	-6.41357 +09
-35	5	-1.91942 +09	6	46	-6.48630 +09
-34	6	-2.14739 +09	7	47	-6.55823 +09
-33	7	-2.35412 +09	8	48	-6.62937 +09
-32	8	-2.54444 +09	9	49	-6.69977 +09
-31	9	-2.72165 +09	10	50	-6.76944 +09
-30	10	-2.88812 +09	11	51	-6.83840 +09
-29	11	-3.04558 +09	12	52	-6.90667 +09
-28	12	-3.19535 +09	13	53	-6.97428 +09
-27	13	-3.33845 +09	14	54	-7.04124 +09
-26	14	-3.47570 +09	15	55	-7.10757 +09
-25	15	-3.60777 +09	16	56	-7.17329 +09
-24	16	-3.73520 +09	17	57	-7.23841 +09
-23	17	-3.85845 +09	18	58	-7.30296 +09
-22	18	-3.97790 +09	19	59	-7.36694 +09
-21	19	-4.09389 +09	20	60	-7.43037 +09
-20	20	-4.20670 +09	21	61	-7.49327 +09
-19	21	-4.31657 +09	22	62	-7.55565 +09
-18	22	-4.42374 +09	23	63	-7.61751 +09
-17	23	-4.52838 +09	24	64	-7.67888 +09
-16	24	-4.63067 +09	25	65	-7.73977 +09
-15	25	-4.73075 +09	26	66	-7.80018 +09
-14	26	-4.82878 +09	27	67	-7.86013 +09
-13	27	-4.92486 +09	28	68	-7.91962 +09
-12	28	-5.01911 +09	29	69	-7.97867 +09
-11	29	-5.11163 +09	30	70	-8.03729 +09
-10	30	-5.20251 +09	31	71	-8.09549 +09
-9	31	-5.29184 +09	32	72	-8.15327 +09
-8	32	-5.37970 +09	33	73	-8.21065 +09
-7	33	-5.46614 +09	34	74	-8.26763 +09
-6	34	-5.55125 +09	35	75	-8.32422 +09
-5	35	-5.63507 +09	36	76	-8.38043 +09
-4	36	-5.71768 +09	37	77	-8.43625 +09
-3	37	-5.79911 +09	38	78	-8.49169 +09
-2	38	-5.87941 +09	39	79	-8.54672 +09
-1	39	-5.95864 +09	40	80	-8.60126 +09
0	40	-6.03684 +09			