

Technical University of Denmark



**4U 0614+09**

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*Published in:*  
International Astronomical Union Circulars (IAUC)

*Publication date:*  
1993

*Document Version*  
Publisher's PDF, also known as Version of record

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*Citation (APA):*  
Brandt, S., Lund, N., & Castro-Tirado, A. J. (1993). 4U 0614+09. International Astronomical Union Circulars (IAUC), (5710).

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## 4U 0614+09

S. Brandt, N. Lund and A. J. Castro-Tirado, Danish Space Research Institute, report: "An x-ray burst from the low-mass x-ray binary 4U 0614+09 has been detected by the WATCH all-sky monitor on the EURECA satellite. The burst started on Feb. 17.46513 UT and in eight seconds reached a peak flux of 15 Crab in the 6-15-keV energy band. The flux decayed with an e-folding time of about 15 seconds."

## 1993 BW2

Further precise positions have been reported as follows:

1993 UT	R.A. (2000)	Decl.	Observer
Feb. 2.98084	6 44 00.54	+39 58 44.4	Bendjoya
2.98582	6 44 01.09	+39 59 03.3	"
2.98848	6 44 01.44	+39 59 14.2	"
18.14792	7 16 57.67	+49 45 49.9	McCrosky
18.15744	7 16 58.86	+49 45 59.8	"

P. Bendjoya and A. Maury (Observatoire de la Cote d'Azur). 0.9-m CERGA Schmidt + CCD. Reduction by Maury and J. B. Edmond.

R. E. McCrosky and C.-Y. Shao (Oak Ridge). 1.5-m reflector + CCD.

Improved orbital elements from 12 observations Jan. 28-Feb. 18:

T = 1992 Nov. 20.1158 TT                      Peri. = 287.2101  
 e = 0.304419                                      Node = 121.2250 2000.0  
 q = 0.926126 AU                                  Incl. = 21.8299  
 a = 1.331442 AU      n = 0.6415352      P = 1.536 years

1993 TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
Feb. 17	7 14.43	+49 23.6	0.323	1.218	129.1	39.0	
17.0							
22	7 25.56	+50 43.8	0.369	1.242	125.8	40.2	
17.4							
27	7 36.87	+51 28.9	0.416	1.266	122.9	41.1	
17.7							
Mar. 4	7 48.32	+51 48.0	0.465	1.289	120.1	41.7	
18.0							
9	7 59.84	+51 47.3	0.514	1.312	117.6	42.1	
18.3							
14	8 11.35	+51 31.1	0.564	1.335	115.1	42.4	
18.5							
19	8 22.84	+51 02.3	0.614	1.357	112.8	42.5	
18.8							
24	8 34.28	+50 23.1	0.666	1.379	110.5	42.6	
19.0							