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Title	REPS: REscaled Power Spectra for initial conditions with massive neutrinos
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1 *****
2 *****
3             REPS - v. Jan 2017
4 *****
5 *****
6 Latest version on https://github.com/matteozennaro/reps
7 DOI https://zenodo.org/badge/latestdoi/70810261
8 *****
9 *****
10 Contents of this file:
11 --- Installation
12 --- Usage:
13 ----- Parameter file
14 ----- Usage of reps
15
16 *****
17 Installation:
18 *****
19 Just choose among gcc and icc in the Makefile.
20 After 'make' the executable reps will be created.
21
22 *****
23 Usage:
24 *****
25 To use this code:
26 --> prepare a parameter file, based on params.ini
27 --> run the code reps
28
29 *****

```

```
30 Parameter file:
31 *****
32 REPS parameter file is extensively explained in params.ini. Other examples
33 can be found in the folder EXAMPLES.
34
35 Please, always keep in mind that the code can be used for different purposes.
36 FOR SETTING INITIAL CONDITIONS FOR NEWTONIAN SIMULATIONS you need to set
37
38 wrong_bc = 0 -> growth rates (used as boundary conditions in the code) will
39         be computed as numerical derivatives of the (square roots of
40         the) power spectra.
41
42 and choose between
43
44 wrong_nu = 1 -> if you are going to provide the simulation with the tabulated
45         Hubble function produced by REPS.
46 wrong_nu = 2 -> if you are letting your sim compute H(z) and your sim does not
47         include relativistic neutrinos in the computation of the Hubble
48         function.
49
50 *****
51 Running REPS
52 *****
53 ./reps params.ini
54 The rescaled power spectra will be saved with names based on your chosen
55 output options. Note that, if the code will call a Boltzmann solver, the
56 original outputs of the boltzmann code will be stored in the folder PK_TABS
57 for reference.
58
59 *****
```