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59 lines (50 sloc) 2.66 KB Raw Blame History

```
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 ********************************************************************************
```

```
Parameter file:
********************************************************************************
REPS parameter file is extensively explained in params.ini. Other examples
can be found in the folder EXAMPLES.

Please, always keep in mind that the code can be used for different purposes.
FOR SETTING INITIAL CONDITIONS FOR NEWTONIAN SIMULATIONS you need to set

wrong_bc = 0 -> growth rates (used as boundary conditions in the code) will
                be computed as numerical derivatives of the (square roots of
                the) power spectra.

and choose between

wrong_nu = 1 -> if you are going to provide the simulation with the tabulated
                Hubble function produced by REPS.
wrong_nu = 2 -> if you are letting your sim compute H(z) and your sim does not
                include relativistic neutrinos in the computation of the Hubble
                function.

********************************************************************************
Running REPS
********************************************************************************
./reps params.ini
The rescaled power spectra will be saved with names based on your chosen
output options. Note that, if the code will call a Boltzmann solver, the
original outputs of the boltzmann code will be stored in the folder PK_TABS
for reference.

********************************************************************************
```