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Title	REPS: REscaled Power Spectra for initial conditions with massive neutrinos
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59 lines (50 sloc) 2.66 KB

Raw Blame History

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REPS - v. Jan 2017

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Latest version on <https://github.com/matteozennaro/reps>

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DOI <https://zenodo.org/badge/latestdoi/70810261>

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Contents of this file:

11

--- Installation

12

--- Usage:

13

----- Parameter file

14

----- Usage of reps

15

16

Installation:

17

18

Just choose among gcc and icc in the Makefile.

19

After 'make' the executable reps will be created.

20

21

22

Usage:

23

24

To use this code:

25

--> prepare a parameter file, based on params.ini

26

--> run the code reps

27

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 *****
```