

CompHEP-4.4.0. Release notes

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ATTENTION! The version 4.4.0 has some incompatibilities with previous one!

Changes v.4.2.1 -> v.4.4.0

Incompatibilities

New scheme of work with initial beams and final composite particles was changed.

If you have a private model and want to use them with CompHEP-4.4.0, you have to copy cpart1.mdl file to cpartN.mdl file where N is a number of your model by commands:

```
cd path_to_user_working_directory/model
cp cpart1.mdl cpartN.mdl
```

All new composite particles must be introduced into table by using edit model facilities.

Fix the bugs and clean up code.

- Compilation bug when CERN libraries do not available
- Make randomization of momenta of 2 last particles in event file.
- QCD lambda are taken from PDF now.

Documentation and help files

- SYMB_BATCH-HOWTO
- NUM_BATCH-HOWTO
- Help for beam table (s_beam_1.txt)
- Help for structure function table (s_strfn_1.txt)

Interface

- Symbolic part
 - Add table for initial beam (proton, anti-proton, ...)
 - Introduce switch F3 from beams to particles and vs.
 - Change composite particle table (see [1])
 - Introduce switch F3 from composite particles to particles and vs.
 - Symbolic conservation law is off by default.
 - LOCK file is restored.
 - Maximum sum of output and input particles (MAXINOUT) is 10 by default.
- Numerical part
 - re-arrange menu "Width scheme"
 - Change "Equiv.Photon(...)" to WWA

- Common
 - Re-arrangement of usage of messages and warnings.

Source structure

- All CompHEP libraries were collected into lib subdirectory
- CompHEP PDF file standard description move to tbl-pdf directory
- Files drandXX.[ch] move to service2 subdirectory

Miscellaneous

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