

## CompHEP-4.4.91. Release notes

### **ATTENTION! THE VERSION 4.4.91 IS A TEST RELEASE! STILL NOT FOR SERIOUS PHYSICS RESEARCH!**

#### **Fixed bugs.**

- 4.4.91: Three bugs in generation of session.dat with s\_comphep
- 4.4.91: Wrong values of some commands in tag of the event default file format.
- 4.4.91: Absence of clean-up of the program screen if the width scheme has been changed.
- 4.4.91: Unproper detection of libisajet in CERNLIB if there is a shared version of the library.
- 4.4.90: Several bugs in generation of session.dat with s\_comphep
- 4.4.90: Wrong values of some commands in tag of the event default file format.

#### **Changes.**

- Symbolic part:
  - 4.4.90: All PDFs in the beam/strfun tables have prefix PDF (or LHA, if LHAPDF is interfaced)
  - 4.4.90: Proper generation of session.dat in s\_comphep.
  - 4.4.90: Lots of internal re-arrangements (to simplify the program structure).
- Numerical part:
  - 4.4.90: A new improved version of num\_batch.pl
  - 4.4.90: Diagram viewing is available in n\_comphep (a new option in the main menu)
  - 4.4.90: More convinient behavior of the menu 'Kinematics'
  - 4.4.90: Re-arranged menu "Initial State". Beam particle and PDF are separated.
  - 4.4.90: The LHA event file format has been added, still with no extra HepML tags.
- Common:
  - 4.4.90: Now CompHEP is compatible with gcc-4.x
  - 4.4.90: A new version of make\_tab. Now it can processes files with several subprocesses.
  - 4.4.90: CompHEP can be compiled in two different modes: with OR without LHAPDF.
  - 4.4.90: Several options in ./configure have been added: -with-gcc4, -with-lhapdf, -debug, -help
- Documentation
  - 4.4.91: Updated NUM\_BATCH-HOWTO
  - 4.4.91: Updated LHAPDF\_in\_CompHEP-HOWTO
  - 4.4.91: Updated INSTALL
  - 4.4.90: New NUM\_BATCH-HOWTO
  - 4.4.90: LHAPDF\_in\_CompHEP-HOWTO

#### **Incompatibilities.**

- 4.4.90: A new format of the initial state in session.dat.
- 4.4.90: ComHEP has two regimes of compilation, with or without LHAPDF. CompHEP with LHAPDF has incompatible beam strfun tables. So, these tables will be empty if a user tries to use old files in the new version. No problems in ComHEP without LHAPdf.

## TODO

- Mixing of several event files in LHAef.
- A new version of mk\_tab compatible with the LHAEF format.
- Check LHAPDF-compatible session.dat in internal-PDF-compatible n\_comphep (and vice versa).
- Help files for the new "Initial state" menu.
- More convinient behavior of the menu 'Initial state'. Initialization not by [Esc], but by a new menu command (Init).
- Suppression of linking of all binaries against shared libraries (important for FC6/etc. installation of cernlib)

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