

## ATTENTION! THE VERSION 4.4.104 IS A TEST RELEASE! STILL NOT FOR SERIOUS PHYSICS RESEARCH!

### Fixed bugs.

- 4.4.104: symb\_batch.pl can't calculate processes without PDF (native model particles as beams)
- 4.4.103: a bug for the decay simulation (any decay gives  $e \rightarrow m, M$  after diagram squaring)
- 4.4.102: wrong work of the CompHEP random number generator at 64x machines
- 4.4.98: working symb\_batch.pl with new option for parallel calculations
- 4.4.97: CompHEP generates wrong symbolic code for several processes
- 4.4.97: Undefined symbols in the no-LHAPDF mode
- 4.4.93: The options -add and -proc of num\_batch.pl don't work together properly.
- 4.4.92: n\_comphep can't read the QCD Scale expression.
- 4.4.92: n\_comphep writes down redundant information from session.dat to prt.
- 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:
  - 4.4.103: make output (during compilation/linking) is kept in make\_gui.log
  - 4.4.103: restored editing of composite particle when final state is entered
  - 4.4.98: a new option for parallel calculations in symb\_batch.pl
  - 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:
  - 4.4.99: SUSY models: CERNLIB/ISAJET dependence removed, SLHA interface and SUSPECT added
  - 4.4.96: CompHEP-ROOT interface, for histogramming only
  - 4.4.96: a new version num\_batch.pl
  - 4.4.96: diagram viewer is opened in a separate window
  - 4.4.96: HepML information is added to event files in LHAef
  - 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:
  - 4.4.98: lots of internal changes
  - 4.4.96: several improvements in the CompHEP internal structure
  - 4.4.93: CompHEP has been tested on Mac OS X 10.4 and should work on Mac OS 10.4.X and later.

- 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).

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