

ATTENTION! THE VERSION 4.5.0rc2 IS A TEST RELEASE! STILL NOT FOR SERIOUS PHYSICS RESEARCH!

Fixed bugs.

- 4.5.0rc1: mk_tab can build histograms with LHE sampels
- 4.5.0rc1: SLHA.sh script is now created in user WDIR
- 4.5.0rc1: some tiny bugs in generated event files in LHE
- 4.4.113: Temporary stopper for Latex generation for $2 \rightarrow N$, $N > 4$
- 4.4.113: diag_view is removed if "Del" option is used (menu View/Del/Rename)
- 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:
 - 4.5.0rc1: New implementation of MSSM models, can use FeynHiggs
 - 4.4.113: Automatic generation of process.dat with keeping od selected diagrams
 - 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:
 - 4.4.113: Mix of event files in LHA with HepML info
 - 4.4.113: Move the mix program from cpyth to CompHEP
 - 4.4.113: Using diag_view.exe from installation area
 - 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:
 - 4.5.0rc2: by default CompHEP does not use libxml2 (it can be used with ./configure --with-libxml)
 - 4.4.113: Simplification of the internal code structure
 - 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.

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