GENSER
0.0.4 beta release

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Overview

- ✔ What's new in the next GENSER 0.0.4 release
- ✔ GENSER features and structure
- ✔ Current status of GENSER
- ✔ Interactions with users and authors
- ✔ Further plans
- ✔ Contact information

Changes in GENSER configuration

- ✔ GENSER configuration has been adapted to SCRAM version V0_20_0
- ✔ GENSER configuration has been upgraded to SCRAM ToolBox LCG_22
- ✔ Moving dummy routines to a separate dir dummy:
  - include in GENSER configuration dummy routines
  - Adapt the correspondent BuildFile's for all generators

Two NEW generator packages in GENSER

- ✔ LHAPDF version 1.1

  Note:

  Two different branch of LHAPDF project

- ✔ Glauber Xs version 1.0

  Author V. Uzhinsky

New versions of already supported generators

- ✔ PYTHIA version 6.205 (needed by LHCb)
  PYTHIA version 6.221
- ✔ ISAJET version 7.69
- ✔ HIJING version 1.383b (bug-fix version)
- ✔ Add 8 examples for all HIJING versions

Bug fixes

- ✔ Add missing HIJING source files to all supported HIJING versions: 1.36, 1.37, 1.383, 1.383b
- ✔ Fix the bug "SAVE Local Variables"
  Bugfix available only for HIJING 1.383b
- ✔ Bugfixes of HIJING examples

Documentation and other changes

- ✔ Documentation for End-User completely rewritten and now available in LaTeX
- ✔ Change the directory name for include files in all generators to more convenient 'include'
- ✔ According to LCG SPI policy new GENSER top 'include' directory has been created.
  It contains links to 'include' in each generator

GENSER provides

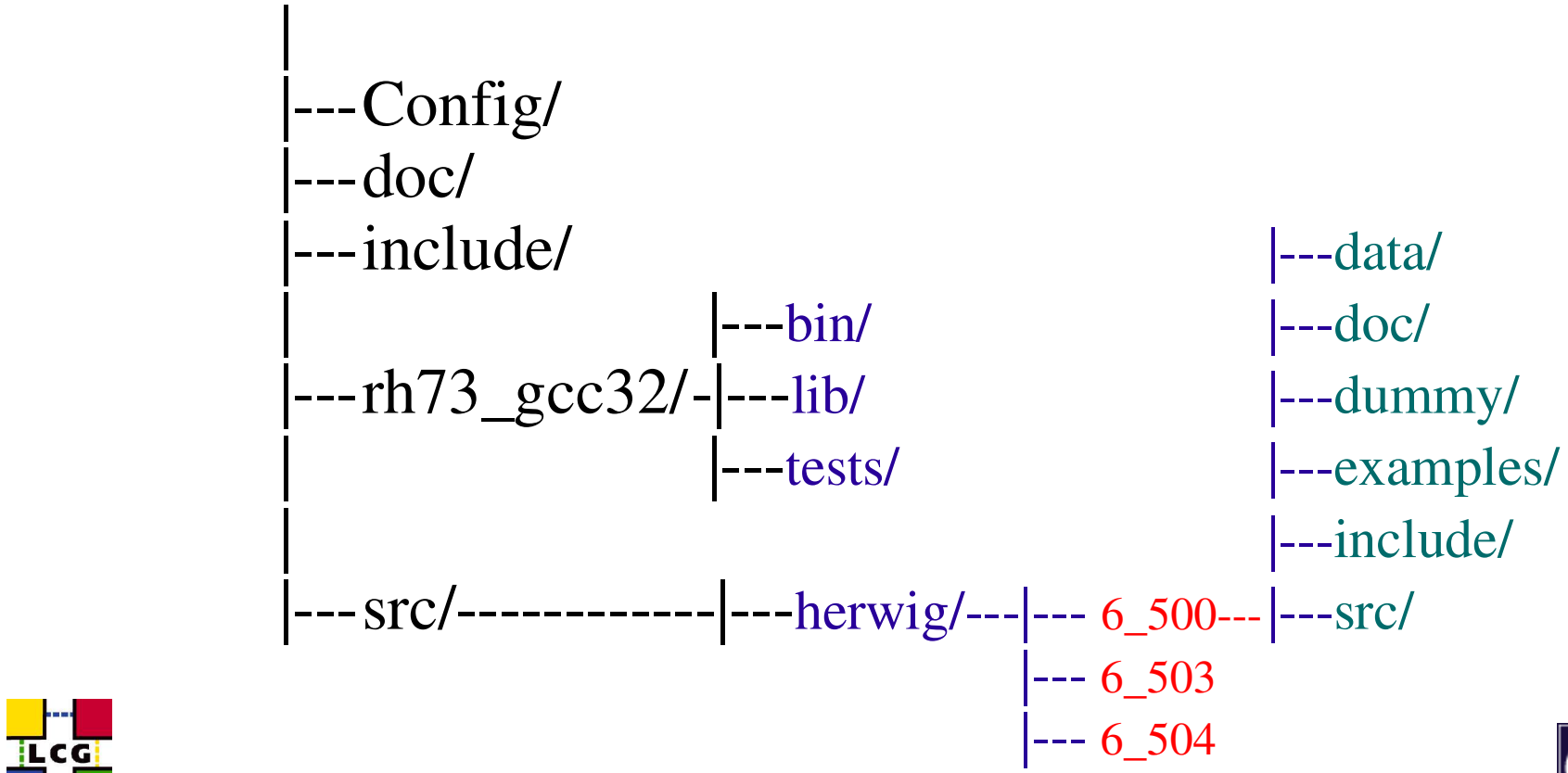
- ✔ Convenient system for the end user
- ✔ Easy way of installation and compilation
- ✔ Source codes provided
- ✔ Fast drawback if something is wrong
- ✔ Different platforms support
- ✔ New versions, interactions with authors

GENSER features

- ✔ GENSER Beta based on SCRAM technology
- ✔ Could be used without SCRAM as well
- ✔ Strict directories structure
- ✔ All generators kept in one place
- ✔ Bugs in generators could be easily fixed
- ✔ Possible external installation for some generators

Current GENSER structure

GENSER_0_0_4



Current GENSER status

- ✔ PYPHIA
  - 6.205
  - 6.217
  - 6.220
  - 6.221
- ✔ HIJING
  - 1.36
  - 1.37
  - 1.383
  - 1.383b (bug-fix version)
- ✔ HERWIG
  - 6.500
  - 6.503
  - 6.504
- ✔ ISAJET
  - 7.67
  - 7.69
- ✔ LHAPDF
  - 1.1
- ✔ Glauber Xs (V. Uzhinsky)
  - 1.0

Interactions with users and authors

- ✔ GENSER_0_0_3 was tested by experiments and some bugs were found. They have been fixed in the new GESNER_0_0_4 release
- ✔ Suggestions regarding GENSER structure and documentation have been received
- ✔ Physics validation tests have been started by V. Uzhinsky
- ✔ Some HIJING bugs where fixed.
  The author going to release new HIJING version 1.384

Further plans

- ✔ Add second priority generators:

  COMPHEP (Alexander Sherstnev)
  ALPGEN (help of experienced users: Filippo Ambroglini)
  EVTGEN, etc.

- ✔ Interact with users and authors. Feedback's

Contact information

- ✔ Contact persons for generator packages:

PYTHIA	Torbjorn Sjostrand
HERWIG	Peter Richardson
ISAJET	P.H. Baer, F.E. Paige, S.D. Protopopescu, and X. Tata
HIJING	Xin-Nian Wang
LHAPDF	Walter Giele
Glauber Xs	Vladimir Uzhinsky

- ✔ Contact persons in experiments:

ATLAS	George Stavropoulos
CMS	Filip Moortgat
ALICE	Andreas Morsch
LHCb	Witold Pokorski

LCG **GEN**erator **SER**vices team

- ✔ GENSER home:
  http://lcgapp.cern.ch/project/simu/generator/
- ✔ LCG GENerator SERvices Subproject team

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