

# Status of GENSER

- **GENSER\_1\_4\_1 is released in october ("light release" with symlinks**
- **Probably the last "monolithic" release**
- **Current integrator O. Zenin (until end 2006)**

# GENSER configuration

- **Migrated to LCG\_46. HepMC at 1.27.02**
- **Platforms slc3\_ia32\_gcc323, slc4\_ia32\_gcc34, slc4\_amd64\_gcc34**

# New generators

- **ThePEG 2006\_01\_31, 1\_0** : new implementation, Make managed, using LCG HepMC
- **Herwig++ 2\_0beta2, 2\_0\_0**: new implementation, Make managed, using LCG HepMC
- **HELAC 0\_1\_0**, Make managed, fortran 95 code compiled by default by gfortran, no libraries, only executables
- **McatNLO 3\_2\_0**: new implementation, Make managed, without libraries

# New versions of installed generators

- **PYTHIA 6\_404, 6\_405, 6\_406**
- **PYTHIA8 060** with fixes of the HepMC interface and the corresponding example; **060s** compiled with HepMC 2.00.00
- **TOPREX 421**
- **CHARYBDIS 1\_002, 1\_003**
- **TAUOLA**: fix from S. Slabospitsky, call `abend` substituted by `stop`
- **HEPMC 2\_00\_00**, does not use CLHEP and can require modifications of codes

## New in tests

- **Test of TOPREX added**
- **Package TESTS modified in order to be compatible with HepMC 2**

# Known problems

- In CHARYBDIS 1\_003, in spite of our warnings, the authors introduced BLOCK DATA. For this reason, it is insufficient to link with CHARYBDIS library, this BLOCK DATA should be inserted in MAIN.
- Default HepMC does not work on slc4\_amd64\_gcc34, one should use 2\_00\_00 or 1\_28\_\*
- TOPREX does not work on slc4\_amd64\_gcc34
- Warnings "might be used uninitialized" for ISAJET and PYTHIA (minor)
- FEYNHIGGS: second make fails (minor)

# Known problems: old problems

- **EVTGENLHC cannot be compiled with gcc versions > 3.2.3. Info from LHCb: they do not use it from GENSER.**
- **LHAPDF set 70150: HERWIG have 2 times more fails to get into phase space: 2%. Still not fully investigated. Qualified as minor problem by the authors.**

# Conclusion about GENSER release 1\_4\_1

- 14 packages are tested in TESTS 1\_02. Practically before every release one – two bugs in generators and packages found. Still more important with introduction of new platforms
- Probably the last "monolithic release"