Release of GENSER 1_3_0

- **M. Kirsanov (integrator - until 17.03.2006)**

- **CERN, LCG Generator Services monthly meeting, 07 March 2006**

Status of GENSER

- In spite of the absence of integrator in January and most of February the new major release 1_3_0 is about to come thanks to a lot of work done in December

- C++ generators integrated in GENSER (not external) finally come.

- Level 1 testing taking shape.

- Attack Heavy Ions? (visit of an expert probably needed)

GENSER configuration

- Migrated to LCG_42 that includes HepMC in external

- There is an example in Pythia8 that uses HepMC

- Possibility of subdirectories dumm and pdfdumm

New generators

- **PYTHIA8 040**

- **ThePEG 2006_01_31**

- **HERWIGPP 2_0beta**

- **PYQUEN and HYJET ? (Heavy Ions, codes received)**

New versions of installed generators

- **PYTHIA 6_326** since 6_325 the subdirectory aux1 is added, the corresponding library can be used to build TPythia6 in ROOT

- **LHAPDF 5_0_0** with several modifications (increased arrays for path and file name, taking path by default from environment variable

- **HIJING 1_383bs** special version to be used together with PYTHIA

- **tests 1.01** (further development, TAUOLA and LHAPDF tests added, HepMC event analysis tools added)

Bug fixes

- **Bug in TAUOLA fixed**

Nearest TODO

- **Migrate to HepMC format in tests in order to have the same approach to c++ generators**

- **Wider list of generators involved in the mandatory physics test, more check points.**

- **GENSER – sources only, split in 3 or more parts (huge generators own pdf to be separated).**

TODO

- **Integration with production framework**

- **Development of the system for the make – based packages: common Makefile in which flags are defined. May be SCRAM configuration Makefiles can be used**

Conclusion

- GENSER is developing well. The number of generators gives signs of saturation, accent starts to shift toward convenience, reliability, testing.

- Collaboration with the authors increases and is fruitful.

- Feedback from users and work with them still to be increased.

- Next integrator O. Zenin (IHEP Protvino) from end March (new person).