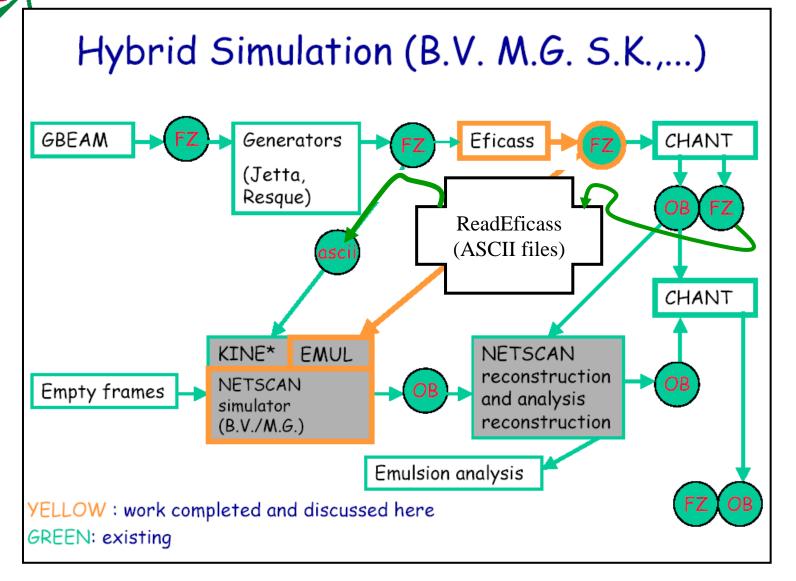


Hybrid Simulation Chain

CHORUS Collaboration meeting CERN, 20-22 November 2002











Hybrid Simulation Chain **Stages**

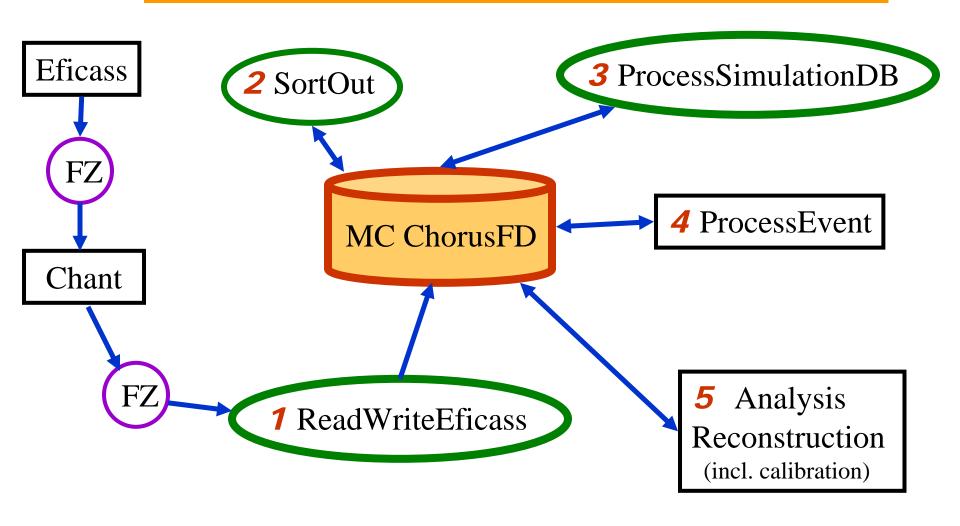
- Set up specialized objectivityTM federation for simulated events
- Dispose of intermediate ASCII files
- Load Eficass generated Chant processed charm events in that Objy federation
- Pass loaded events through adapted
 NetScan processing and analysis procedure,
 including calibration
- Commit for public use







Hybrid Simulation Chain Chart Flow

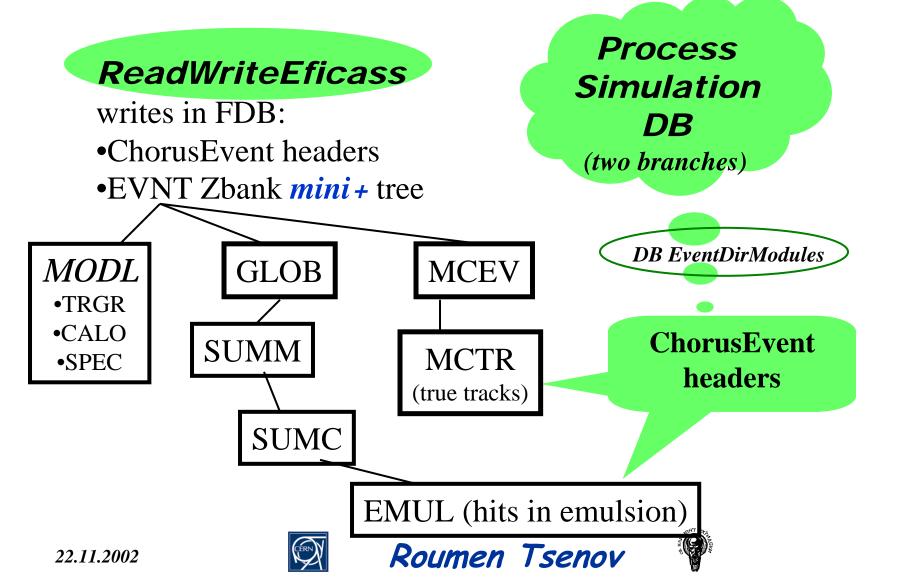






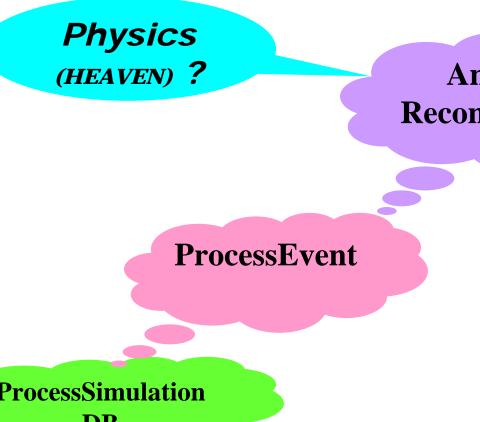


NetScan simulation





Rest of the chain is standard



Analysis Reconstruction

> **Constants for** measurement errors and track matching

ProcessSimulation DB

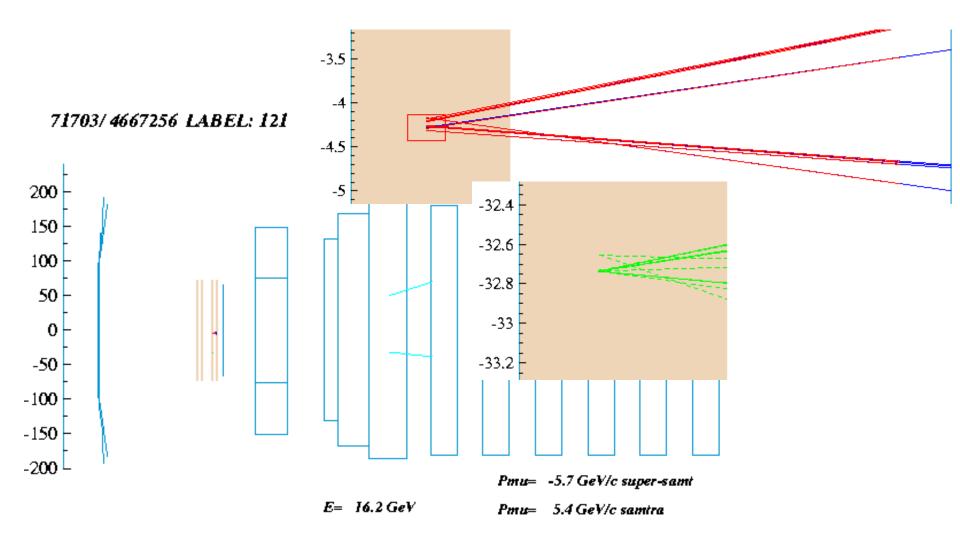






22.11.2002

TV_SHOW event









Events available

Eficass generated Chant processed CC DIS events with c-quark in final state and primary vertex in

emulsion sheet, loaded in MC

ChorusFD: **9368**

Events are spread over *64* (half) modules. Modules passed full

chain: **16**

(pulse height data for simulation were available only for them)

DATA Volume

Chant data: **0.72** *Mbytes/event*

NetScan data: 1.48 Mbytes/event

Altogether: **2.15** *Mbytes/event*

Chant events already available: 6 times more...







"to do" list for next 3-4 weeks

- Migrate all DB files to CASTOR.
- Test results on meaningfulness.
- Modify the code (event generator) for using stageoriented pulse height data tables (now moduleoriented).
- Speed opimization.
- Process events in all modules, already NetScan-ed, including links setting for Chant access.
- Compare with real data.
- Write some documentation...







Summary

- ObjectivityTM federation for Eficass + NetScan simulated events has been set up.
- Code for storing, retrieving and processing data has been tested and committed (in CVS modules chorusdb and emulsion/netsacanalysis).
- Federation has been populated with ~ 10 k events and ¼ of them fully processed.



