Status of MC Simulations for the HEC Module 0

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- **Simulated data in CWNs**
- **Horizontal scan with pions**

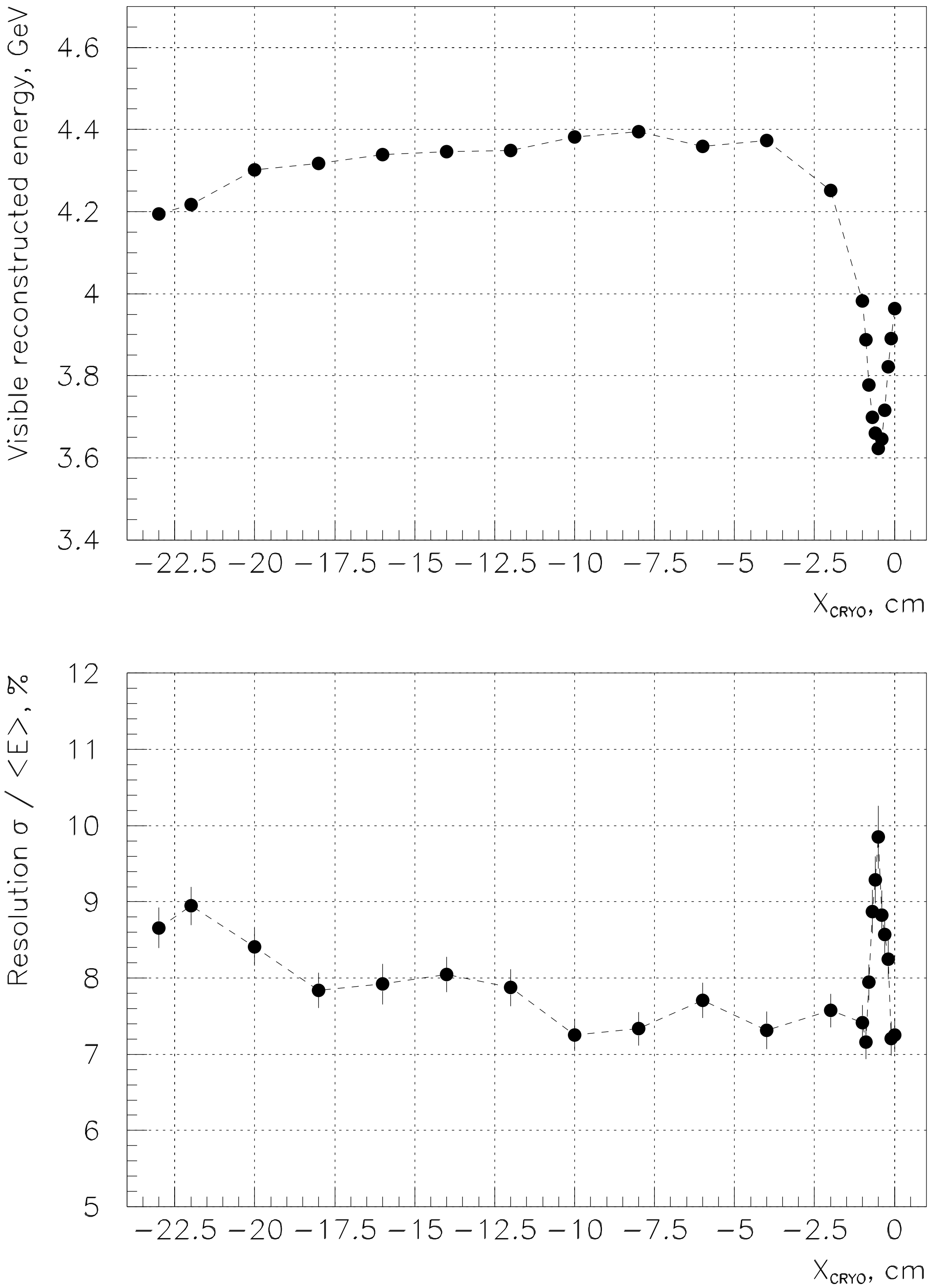
Simulated Data in Column-Wise Ntuples

- **FZ banks $\Rightarrow$ Ntuples:**
  similar format as for real data (produced with HEC-ADC 3.6)
- **MC information:**
  - **pure MC signal in ADC channels**
  - **spoiled MC signal (disconnected sub-gaps, dead channels, absent calibration)**
  - **spoiled MC signal with noise**
  - **leakage energy**
- **Electronic noise (provided by A. Minaenko):**
  - **ordinary noise**
  - **noise as after digital filtering**
- **Rewritten: pion and electron energy scans, muon runs (for April and for August)**
- *http://wwwatlas.mppmu.mpg.de/HEC/tb3cwn.html*
  - **access to ntuples**
  - **format description**
  - **list of hardware problems, taken into account**

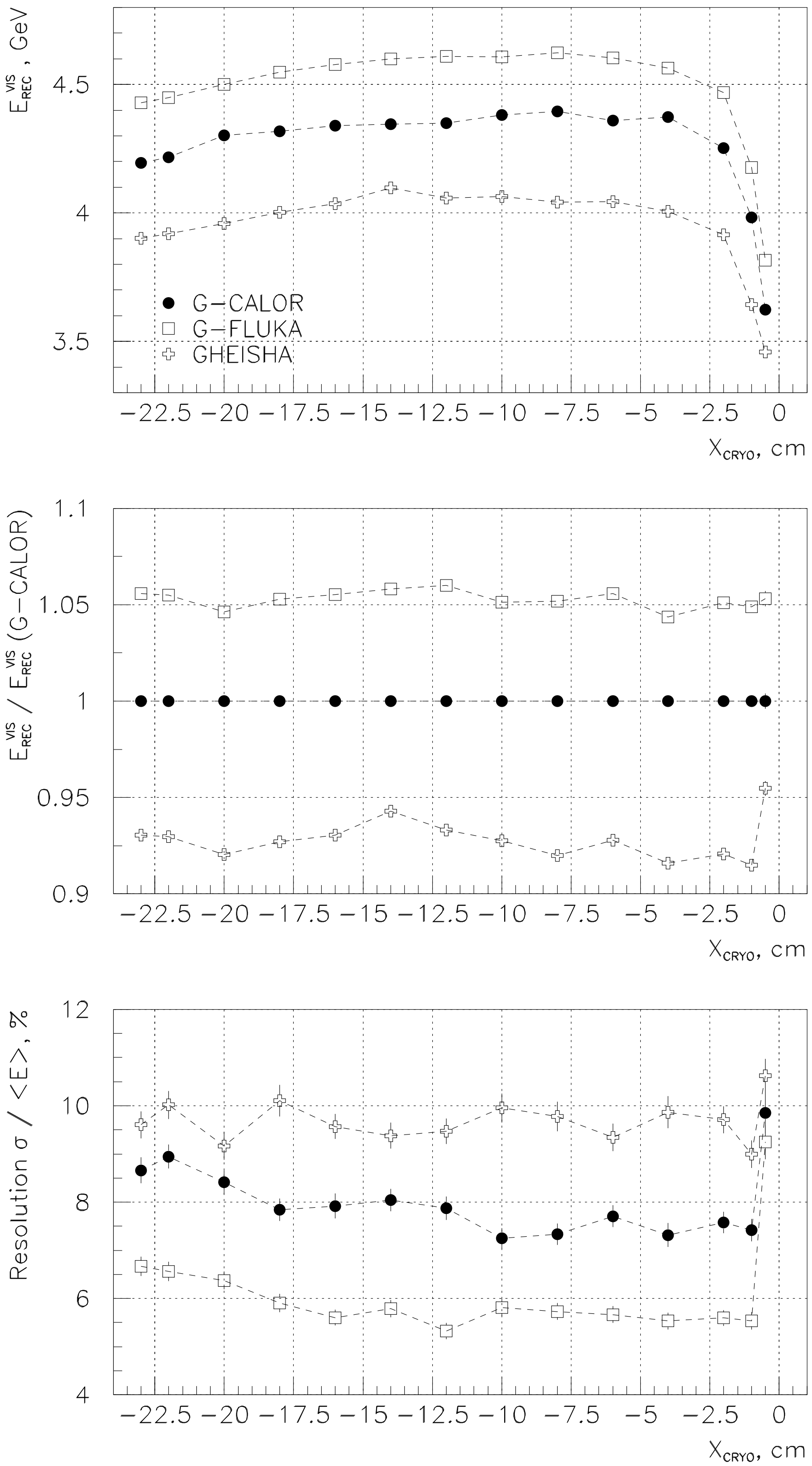
Horizontal Scan with Pions

- **Scan with 120 GeV pions at Y_{TABLE}=5.3 cm**
- **Simulation package HEC-BEAM 3.0 (A. Kiryunin and D. Salihagić)**
- **Shower models:** *G-CALOR, G-FLULKA, GHEISHA*
- **Reconstruction volume:**
  - **whole module**
  - **109 channel tower (module without left φ-sector)**

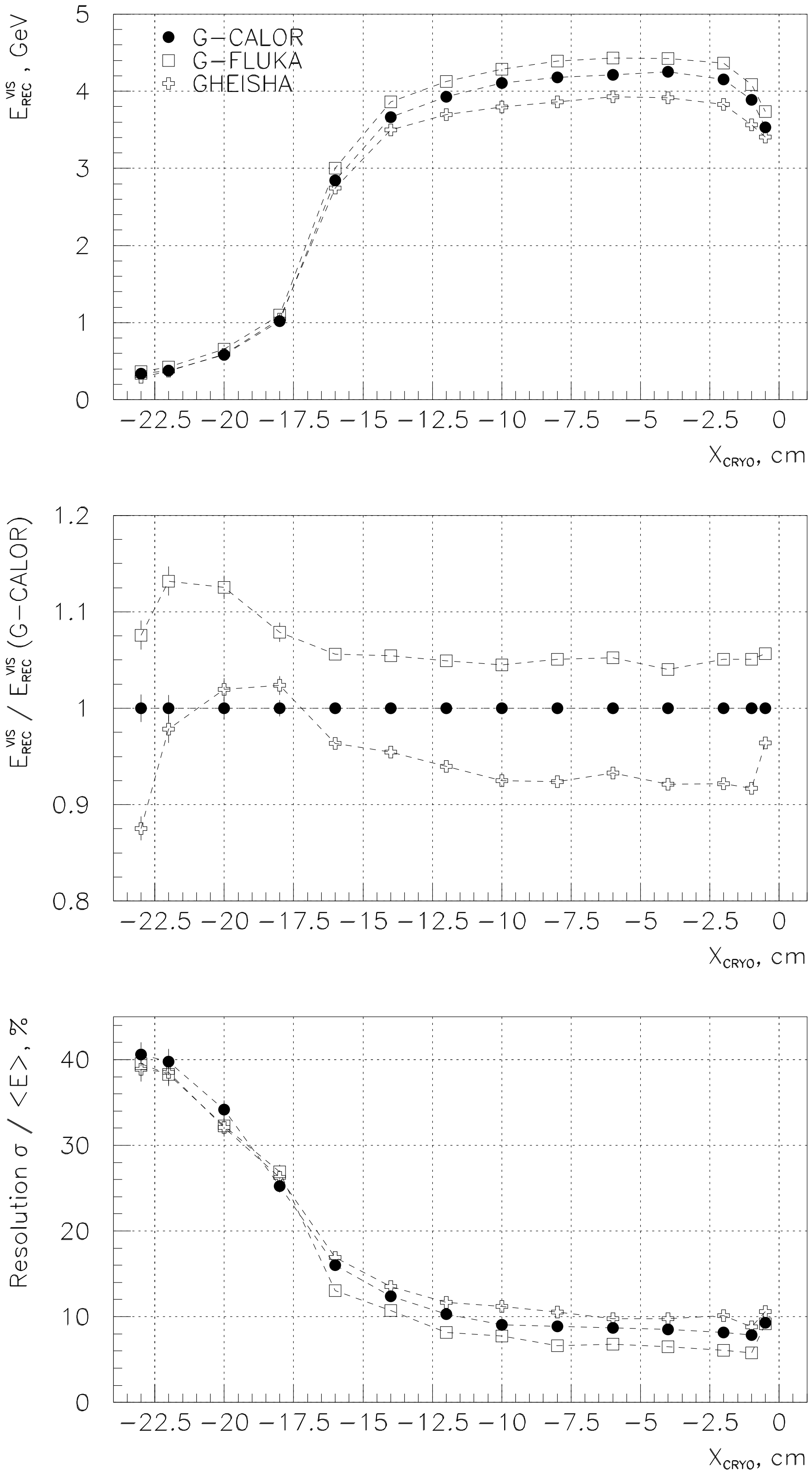
Horizontal Scan with 120 GeV Pions (G-CALOR) in the Whole Module



Horizontal Scan with 120 GeV Pions in the Whole Module



Horizontal Scan with 120 GeV Pions in the 109 Channel Tower



- **Further simulations: are there requests?**
- **Information about simulated data at MPI:** *http://wwwatlas.mppmu.mpg.de/HEC/tb3.html*