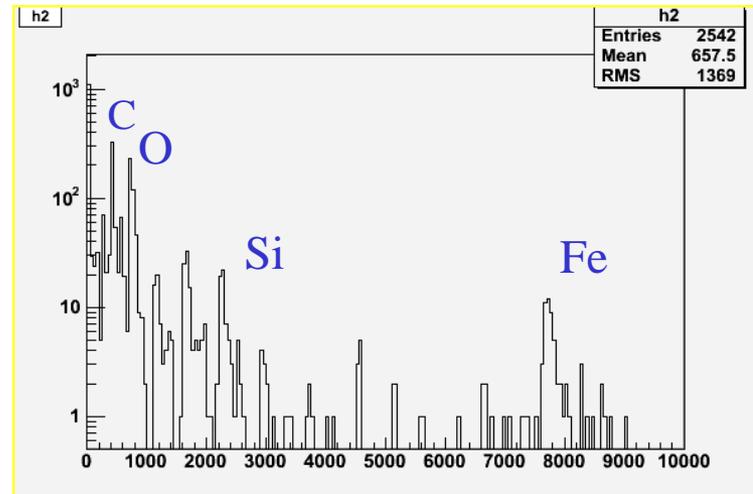
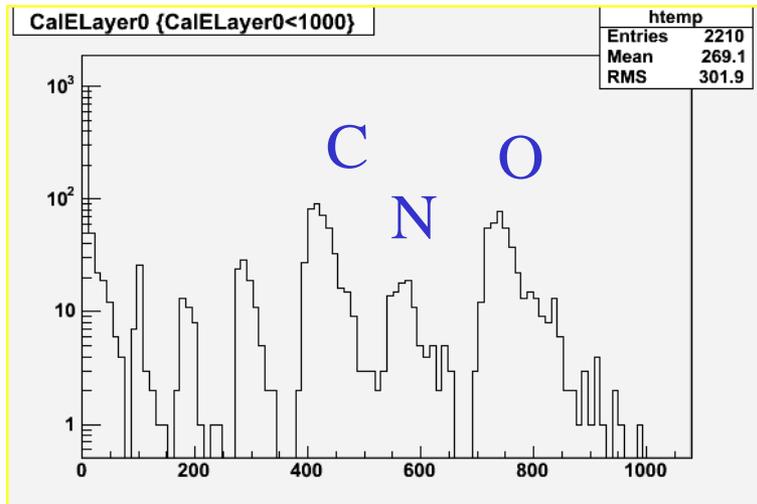
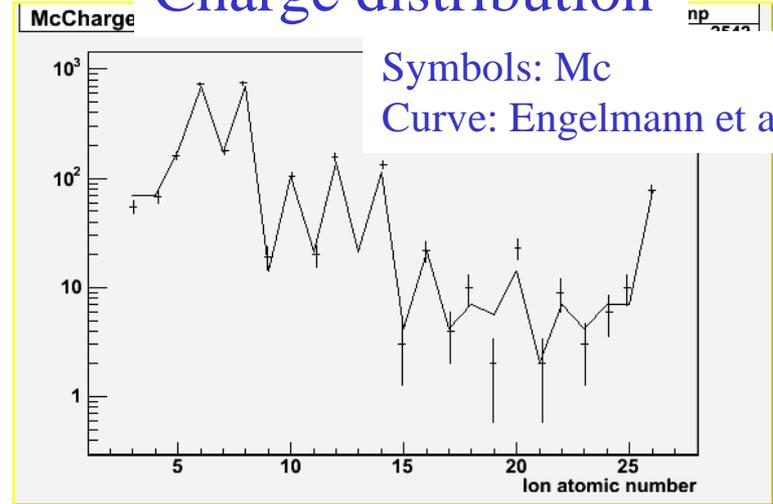
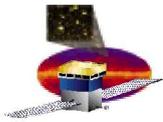


A new class has been created in CRflux:
CrHeavyIonPrimary
 « cocktail » of cosmic-ray heavy ions
 (same rigidity distribution as for
 CrAlphaPrimary, interface to
 RegisterCRFlux: CrExample...)

Charge distribution



Energy in first CAL layer (MeV)



Running GR (v5r0p1) with high-Z heavy ions (Fe) is much slower than for a standalone GEANT4 simulation.

Time per event (s):

	^{16}O	^{28}Si	^{56}Fe	at 2 GeV/nucleon
standalone	.12	.26	.75	
Gleam G4Generator	.72	3.6	31	
Gleam Recon	.30	3.8	16	(will hopefully be reduced with new design)

Is that due to the write-out to TDS: McIntegratingHit, McPositionHit, McParticle? McParticle is probably huge for these events, while it is of no use for digi or recon...

Note: in the distributed version of GR, the execution time is much shorter, but the results are wrong (as mentioned at the analysis meeting last week). The « G4hIonisation » process currently used is bugged. I looked into it, found and corrected the bug. Now the results are OK, but the execution is slow.