

# Status of GCRCalib package - 10/07/2006

> code upgrade (see UML diagram) :

- \* Path length computation
- \* Expected deposited energy hard coded (stored in an array)
- \* Clustering and multiplicity computed for each layer
- \* Selection of useful logs : in a cluster <= 2 hits && energy>100 MeV && crossed by MC dir extrapolation  
=> GCRSelectedXtalsTab (array written in merit.root through GCRSelectValsTool in AnalysisNTuple) :  
energy and path length

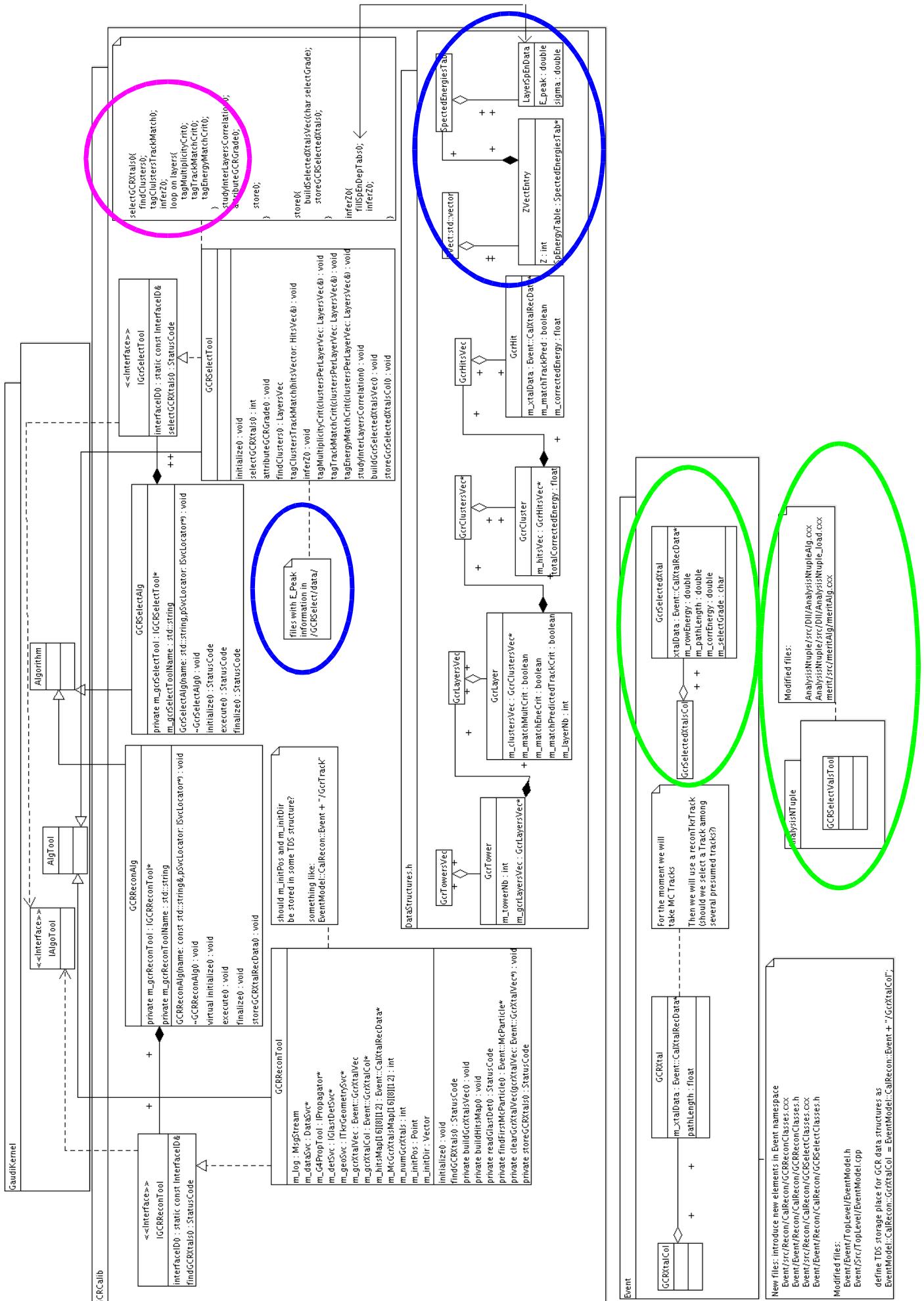
> GR (v9r3) installed and compiled at CC IN2P3 including GCRCalib package

> Heavy ions sources created (5 GeV/n):

```
FluxAlg.source_name="vertical_C_pencil";
FluxAlg.source_name="vertical_C";
FluxAlg.source_name="C_30deg";
FluxAlg.source_name="vertical_Si_pencil";
FluxAlg.source_name="vertical_Si";
FluxAlg.source_name="Si_30deg";
```

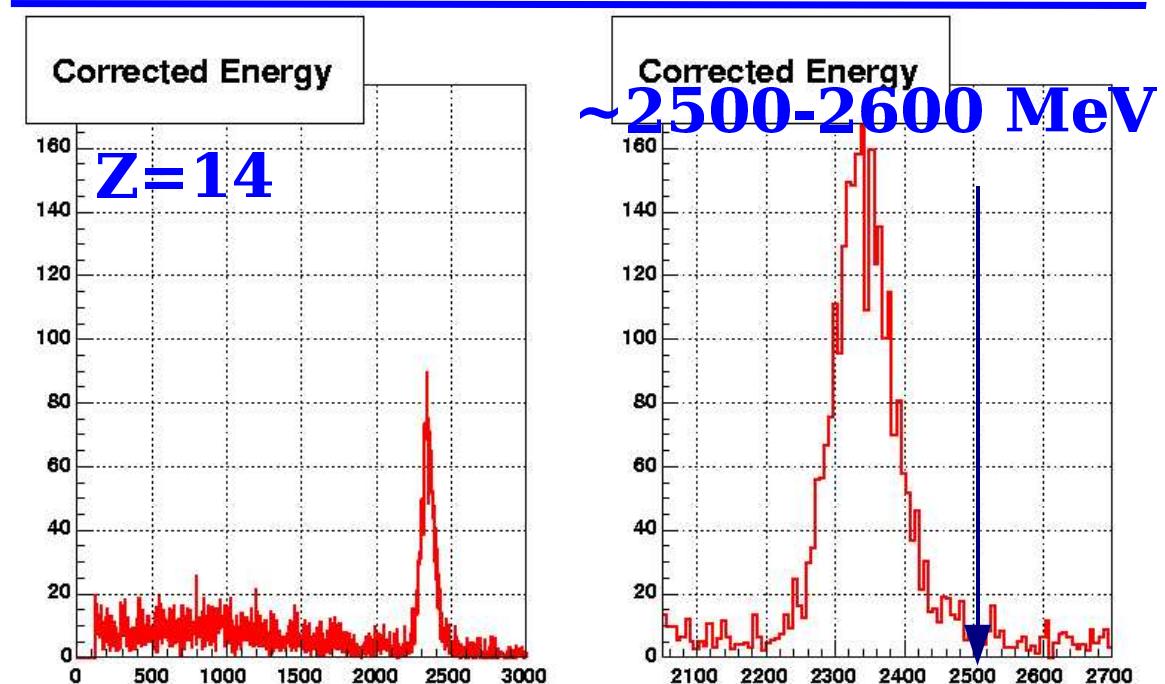
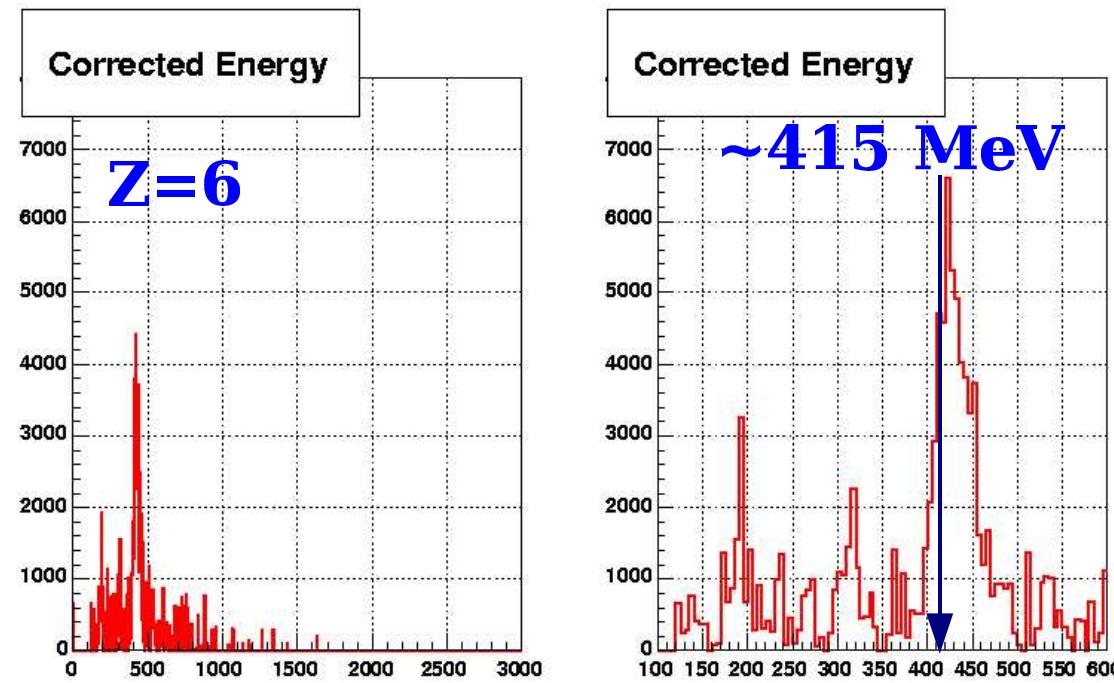
> First batch runs (thanks Berrie and Thierry)

> First plots of deposited energy for vertical\_C and vertical\_Si



**30000 evts**  
**Source : vertical\_C/Si**

**NB :**  
**PathLength=CsIHeight**



## Conclusions

- > X\_30deg sources : error in GCRRecon Alg (after a few events) maybe due to G4 propagator -> need for event scanning with Fred
- > Remaining tasks :
  - GCRRecon
    - Add outputs to recon.root (already in TDS)
  - GCRSelect
    - \* complete filtering algorithm :  
infer Z + matching between layers +  
event grade attribution (no glancing hits etc ...)
    - \* add outputs to GCRSelect.root