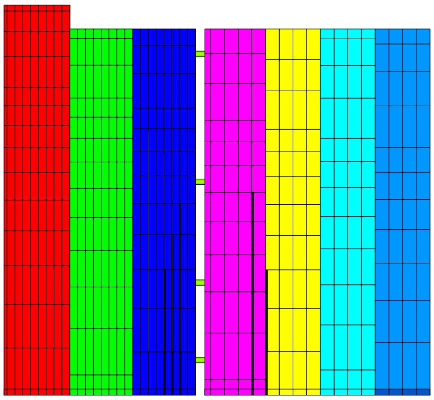
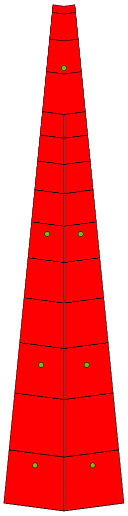
LArg Software/performance

HEC Simulation with Geant4

- Geometry
- G4/G3 Comparison
- Conclusion and outlook

HEC Geometry





- Parametrised volumes reflecting the Pads structure.
- Each volume has it's own ID $\longrightarrow$ Hits collection straightforward.
- But!
  - Many small volumes: 1192 Cu, 1168 Pad Boards, 2363 EST boards (Front Module only!)
  - Memory Usage: 15-20MB.
  - Relatively slow tracking: 1s/GeV.

Use as few physical volumes as possible!