

RADiCAL Simulations

First (& fresh) Results

Carlos Pérez - Sep 15th 2023

Geant4 Configuration

Geometry used:

- Number of Layers: 28
 - Absorber Thickness: 2.5 mm
 - Detector Thickness: 1.5 mm

Materials used:

- Tungsten: “G4_W”
- LYSO:
 - Prelude: 99.81%
 - NISTManager::Lu 71%
 - NISTManager::Si 7%
 - NISTManager::O 18%
 - NISTManager::Y 4%
 - NISTManager::Ce 0.19%

Physics Process List:

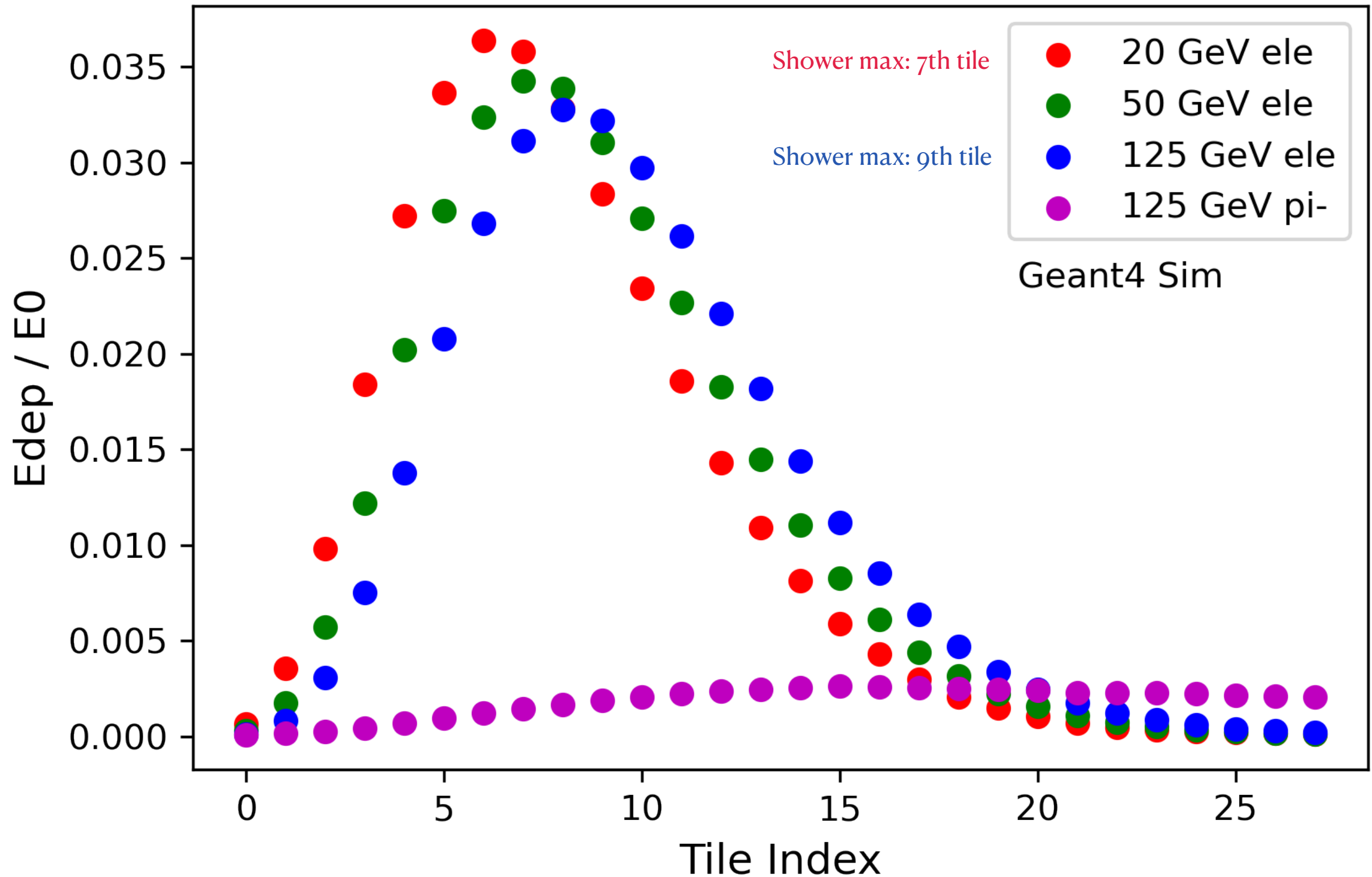
- FTFP_BERT

Tracking:

- Total Edep in Detector Layers

Calibration Runs (Detector Tile is made of W)

Energy Deposited in Tungsten Tiles



RADiCAL Runs

Energy Deposited in LYSO Tiles

