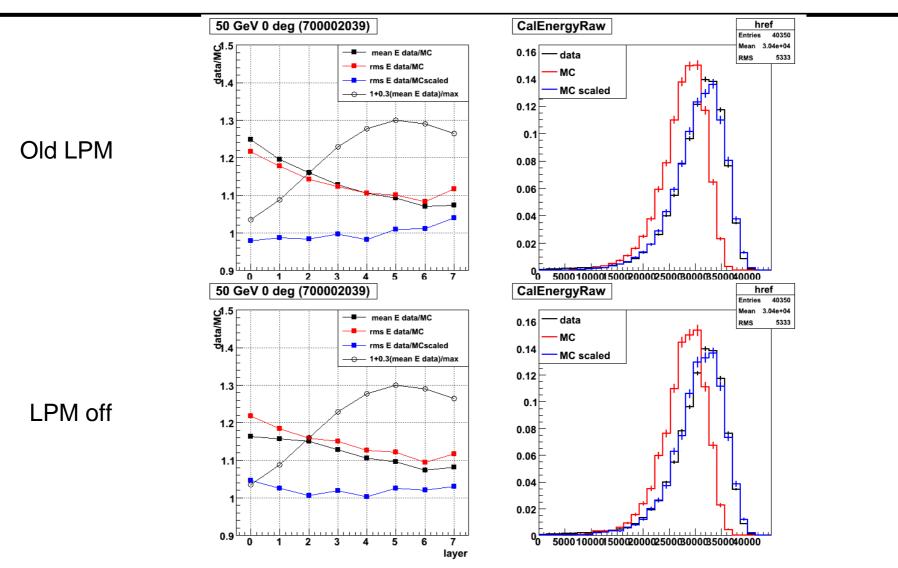


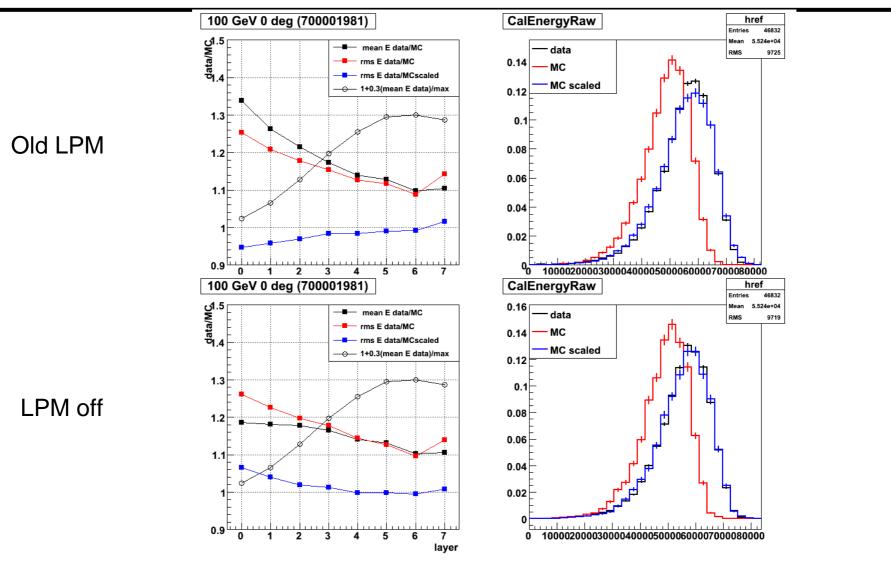
# Data/MC comparison with and without LPM

- Last data reprocessing :
  - -recon-v2r71215p1
- Simulation
  - v8r130101p1-GLAST
  - v8r130101p1-NoBtLPM
  - only 50, 100, 196 and 282 GeV on-axis



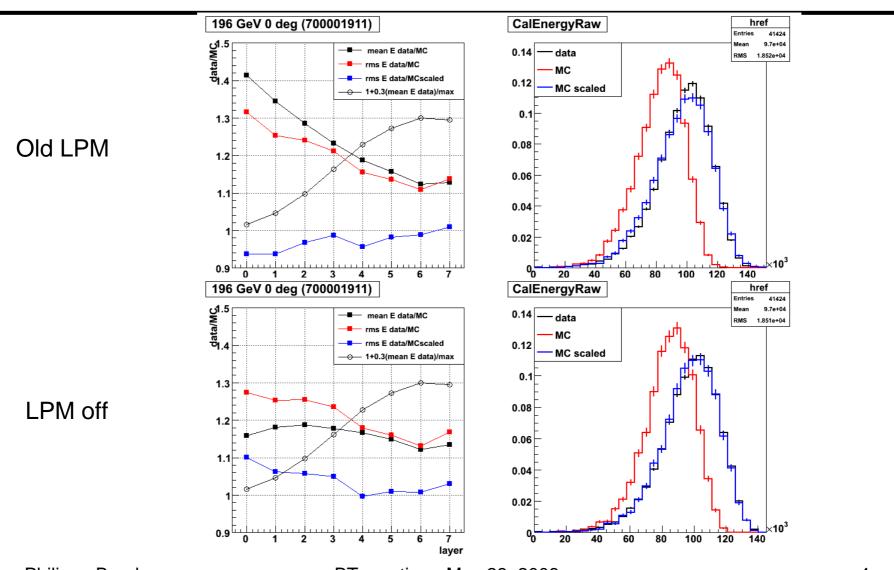
Philippe Bruel

BT meeting - May 28, 2008

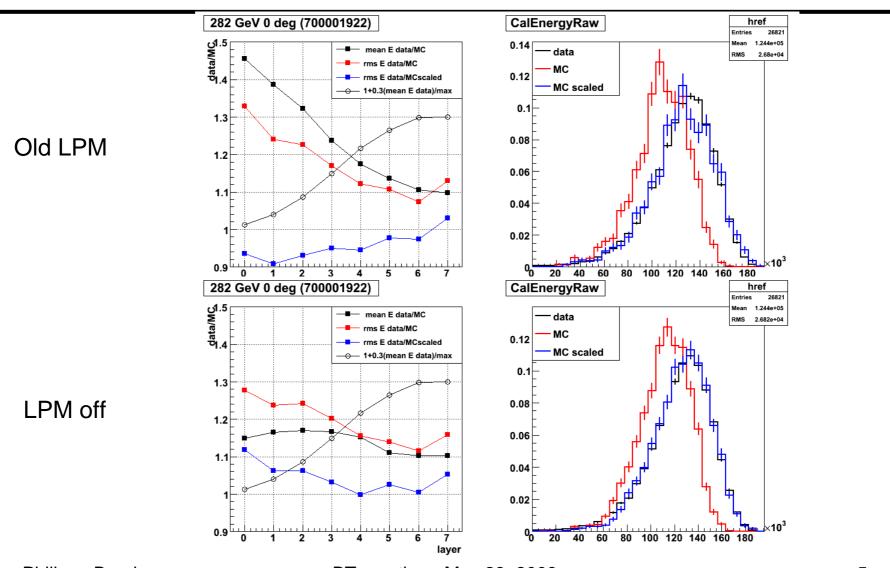


Philippe Bruel

BT meeting - May 28, 2008



BT meeting - May 28, 2008



Philippe Bruel

BT meeting - May 28, 2008

### **Conclusions**

- Turning off LPM -> the shower development is faster -> more energies in the first layers -> the data/MC discrepancy decreases in the first layers
- · The discrepancy is much less dependent on the layer!
- Waiting for the new MC with the new LPM!
- We have two parameters:
  - LPM strength increases -> ~ translation of the shower towards larger
    XO
  - Extra material increases -> ~ translation of the shower towards smaller XO
- We have many variables:
  - Tkr number of hits, energy in each layer
- We can hope that, with the new LPM, we can find an amount of extra material that works for all energies and configuration...