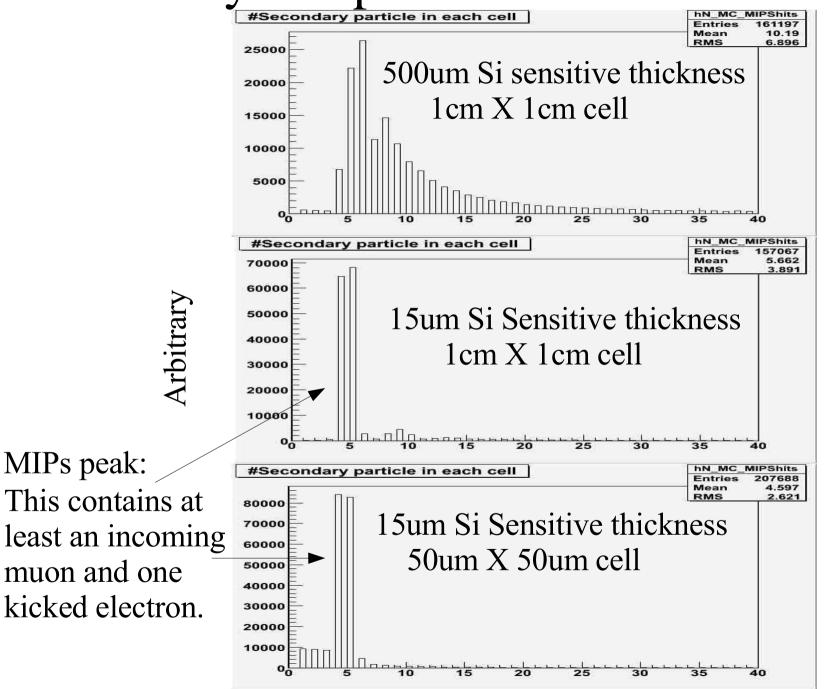
## MAPS Geometry Simulation Status

Yoshinari Mikami University of Birmingham

MAPS meeting at RAL 12<sup>th</sup> July 2006

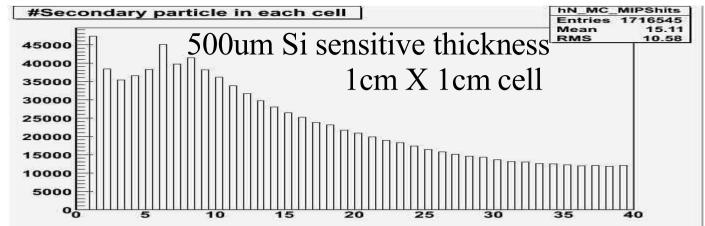
Contents: 1. #Particles which contributes on one cell\_hit

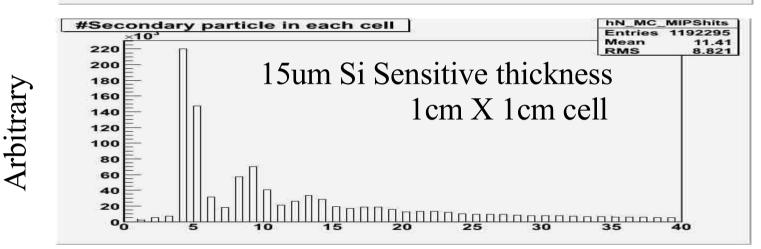
### Geometry comparison with 20 GeV muon

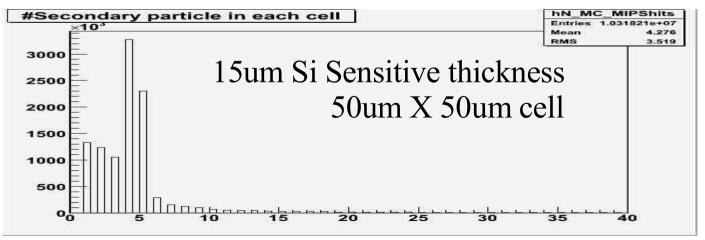


Number of particles which contributes on one cell hit

#### Geometry comparison with 20 GeV electron

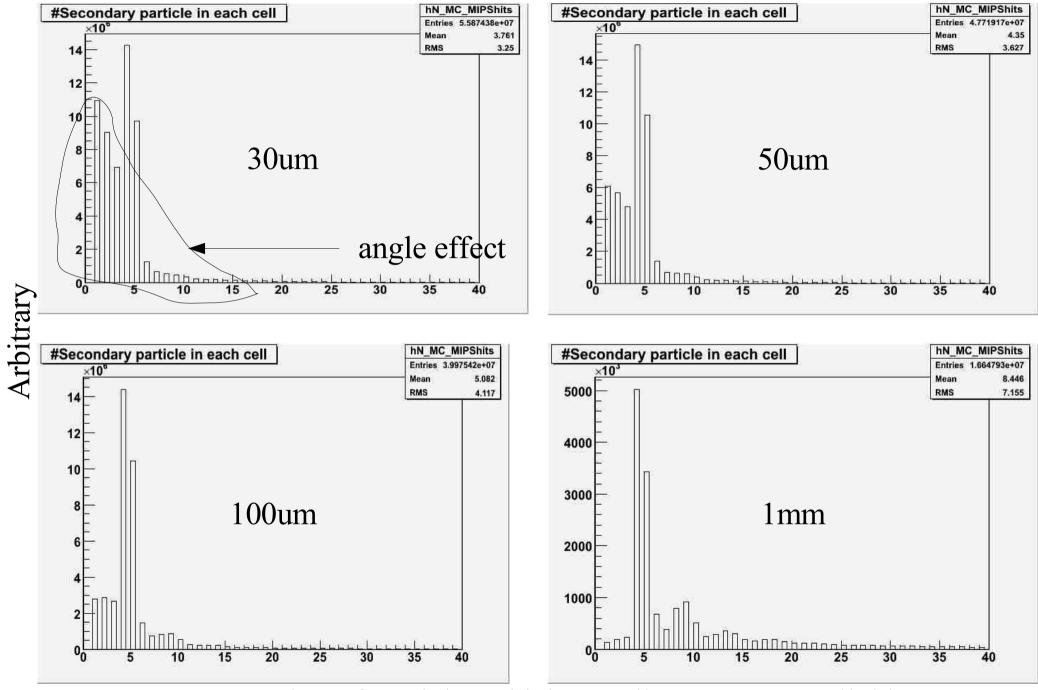






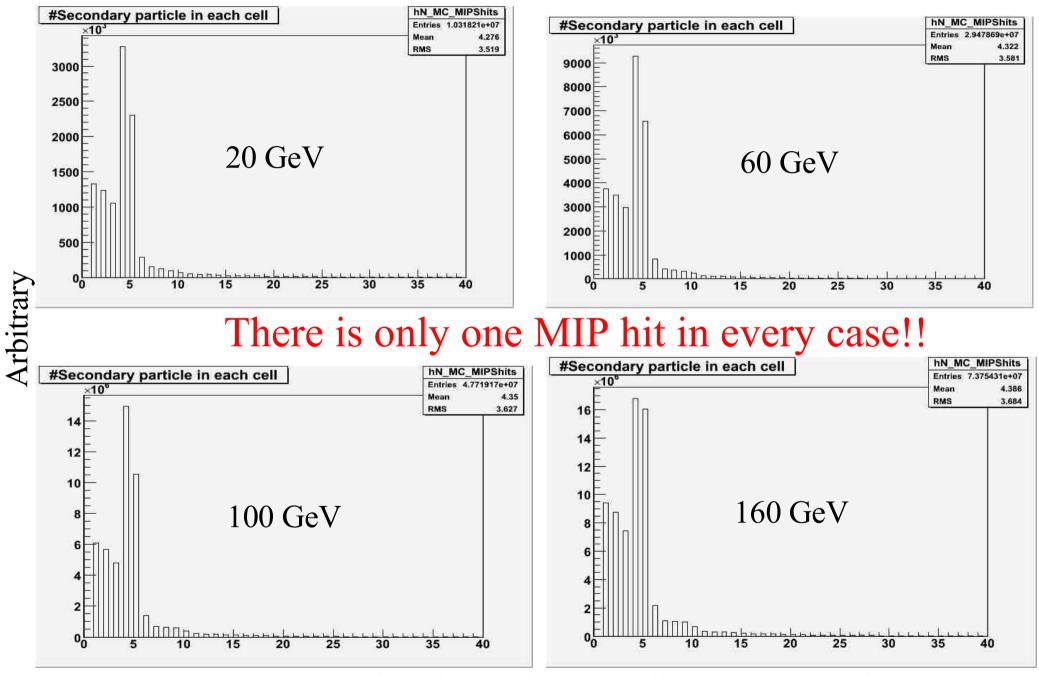
Number of particles which contributes on one cell\_hit

Cell size dependence with 100 GeV electron, 15um Si sensitive thickness



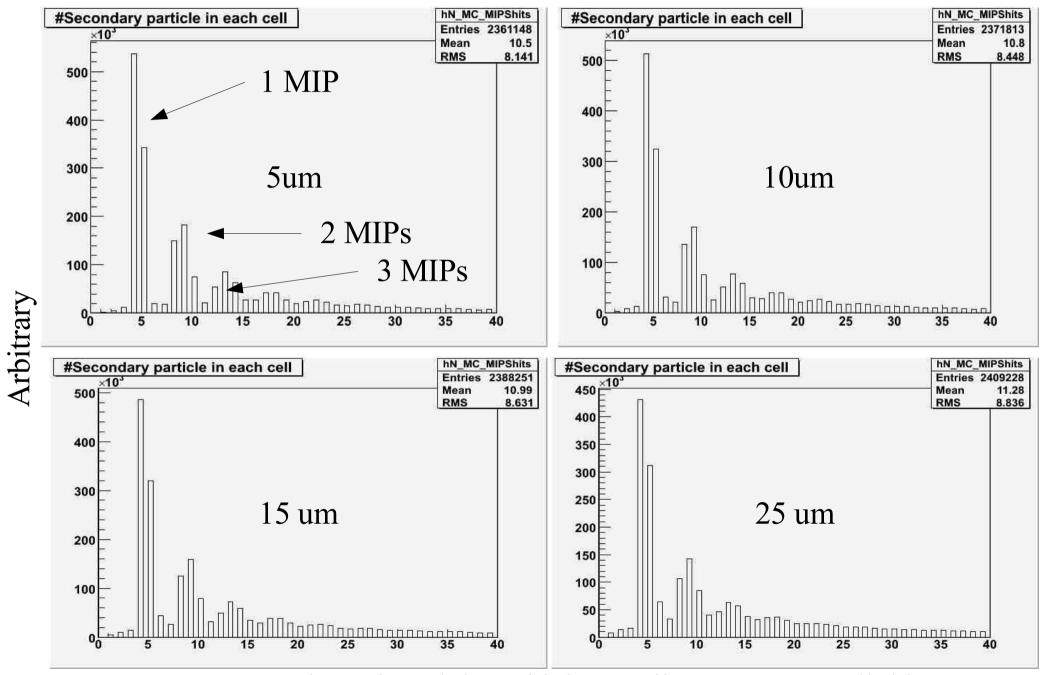
Number of particles which contributes on one cell\_hit

#### Energy dependence with electron, 15um Si sensitive thickness, 50umX50um cell



Number of particles which contributes on one cell hit

### Si sensitive thickness dependence with 20 GeV electron, 1cmX1cm cell



Number of particles which contributes on one cell\_hit

# Next steps and status

- MC studies
  - Efficiency study with angle dependence and with particle separation
- MAPS codes (Ecal02.cc for thin Si sensitive thickness with Si non-sensitive volume) and more small cell division codes (Encoder64.cc for up to 5um cell) will be ready for release. (A bug in modified Encoder64.cc is fixed by Anne-Maire. <-Thanks a lot!)