Influence of Disconnected Sub-Gaps

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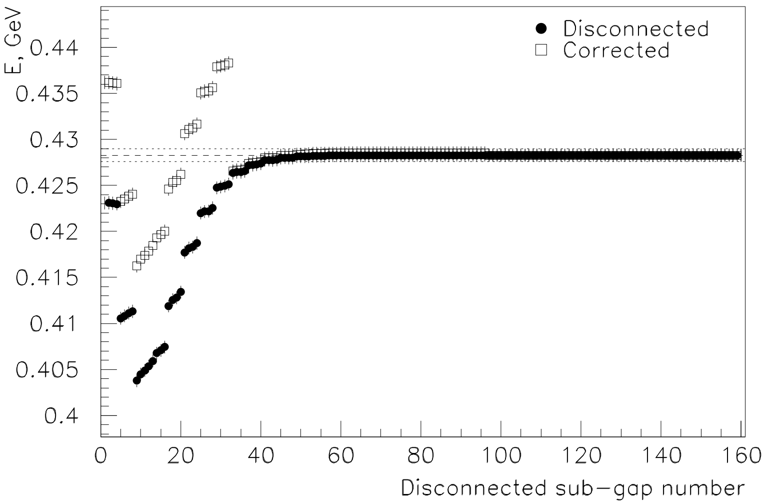
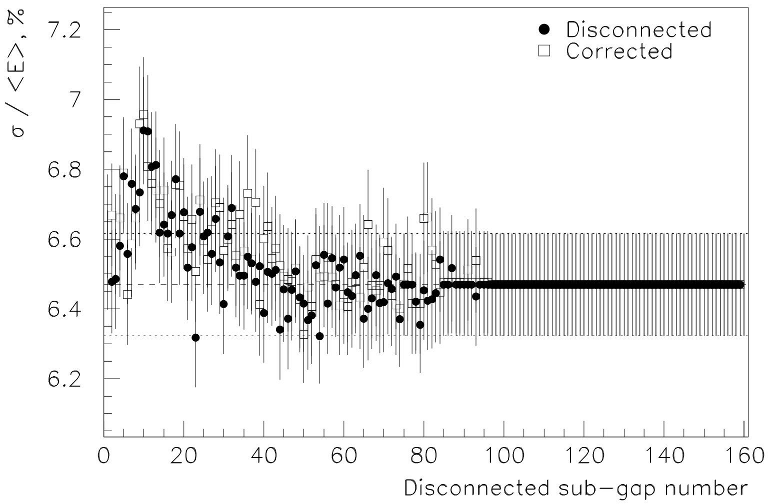
- **Test beam simulations with HEC-BEAM 3.2**
- **Pion and electron energy scans at point M (1999)**
- **Energy in the whole module:**
  - **only one disconnected sub-gap in a central wedge**
  - **geometrical correction for one sub-gap:**
    - **32/31 for layers 1, 3 and 4**
    - **64/63 for layer 2**

- **What else?**
  - **MC-correction for a missing sub-gap**
  - **disconnect more sub-gaps (?)**
  - **ATLAS set-up (with EMEC in front)**
  - **jets (pions?) up to TeV-region**

10 GeV Electrons at Point M (1999)

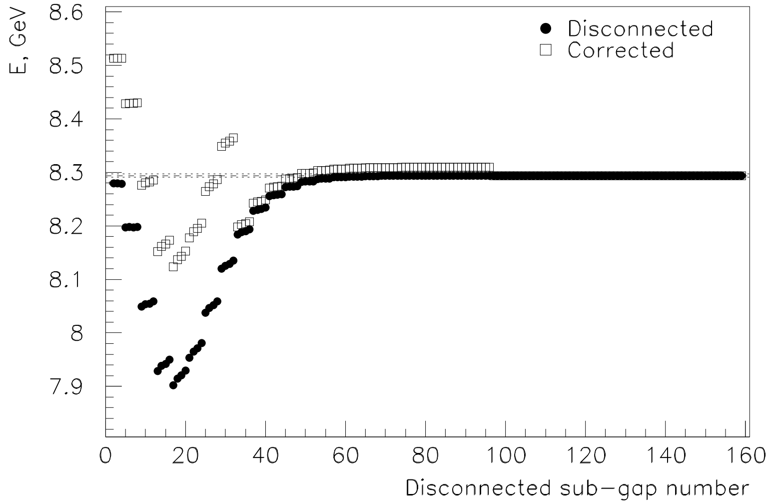


Reconstructed visible energy

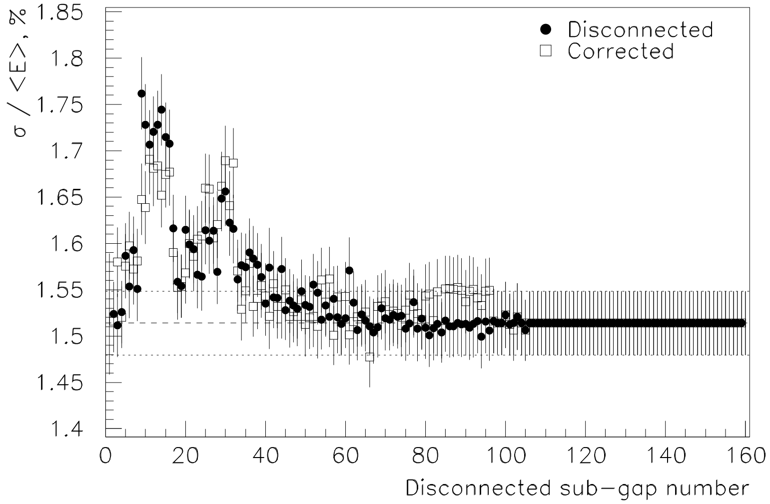


Resolution

193 GeV Electrons at Point M (1999)

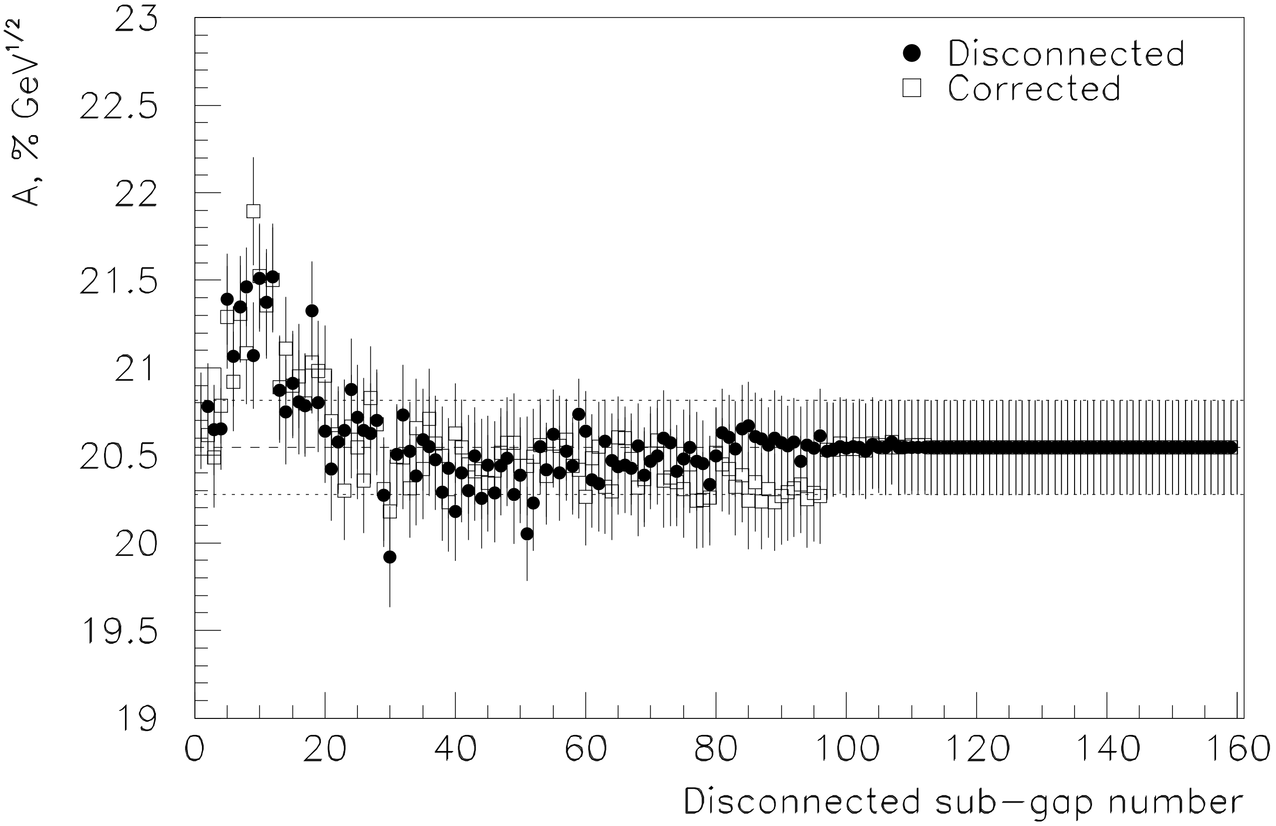


Reconstructed visible energy

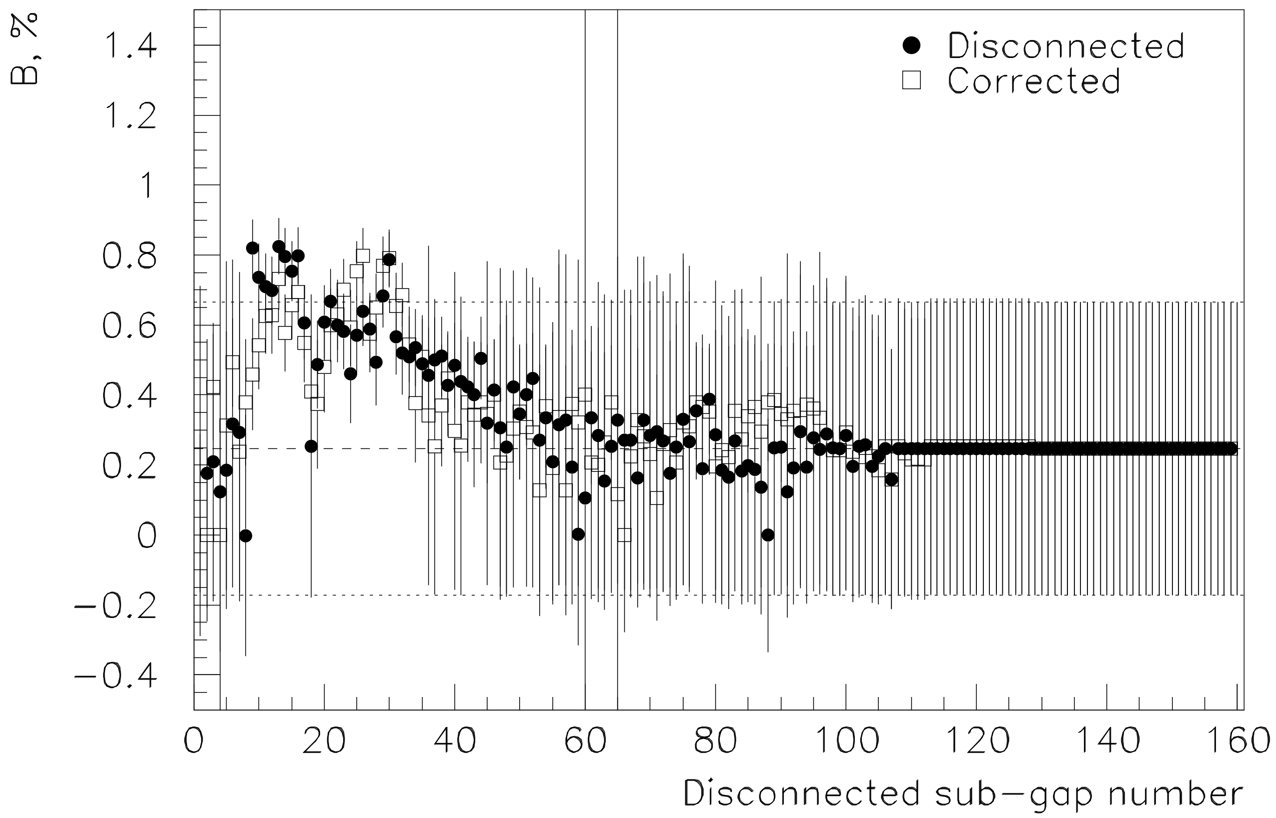


Resolution

Electrons at Point M (1999)

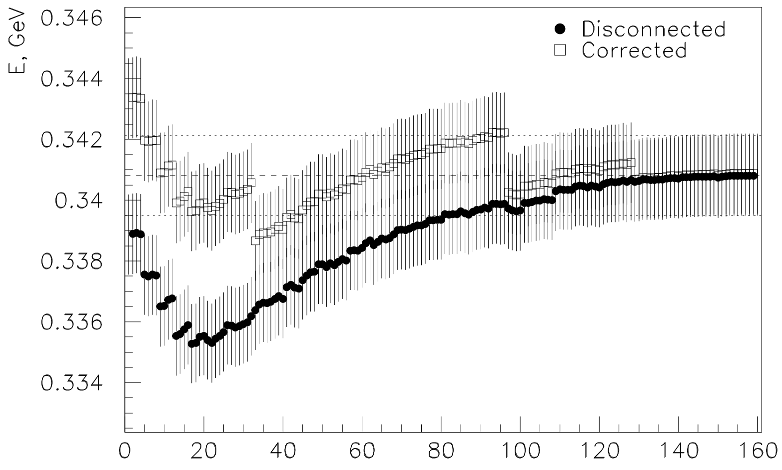


Sampling term

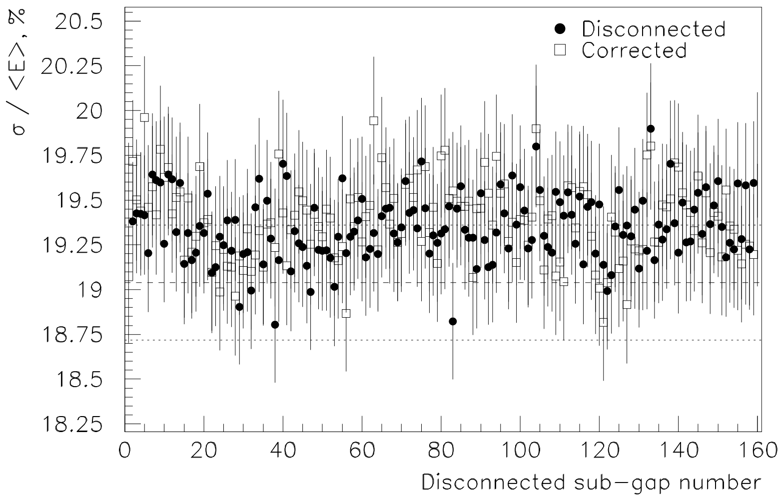


Constant term

10 GeV Pions at Point M (1999)

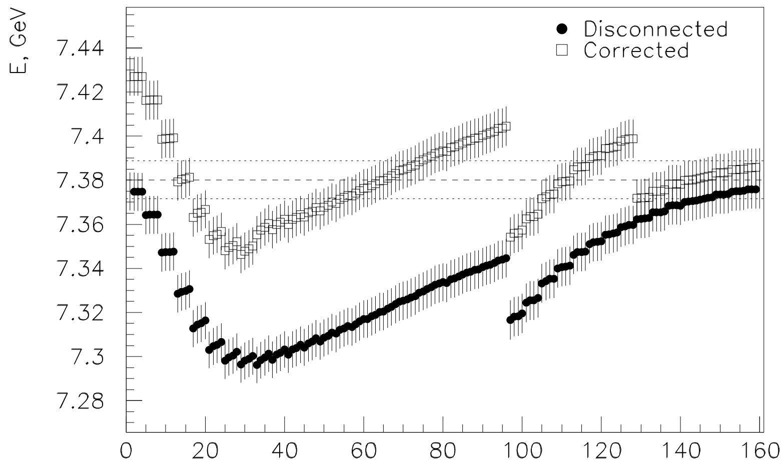


Reconstructed visible energy

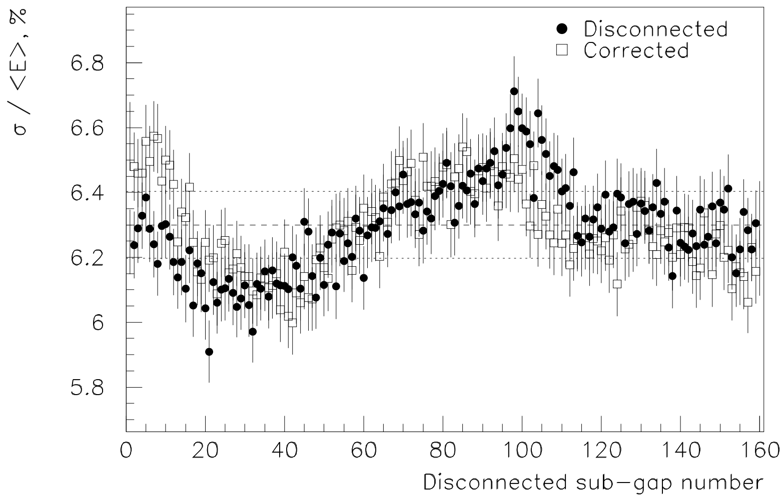


Resolution

200 GeV Pions at Point M (1999)

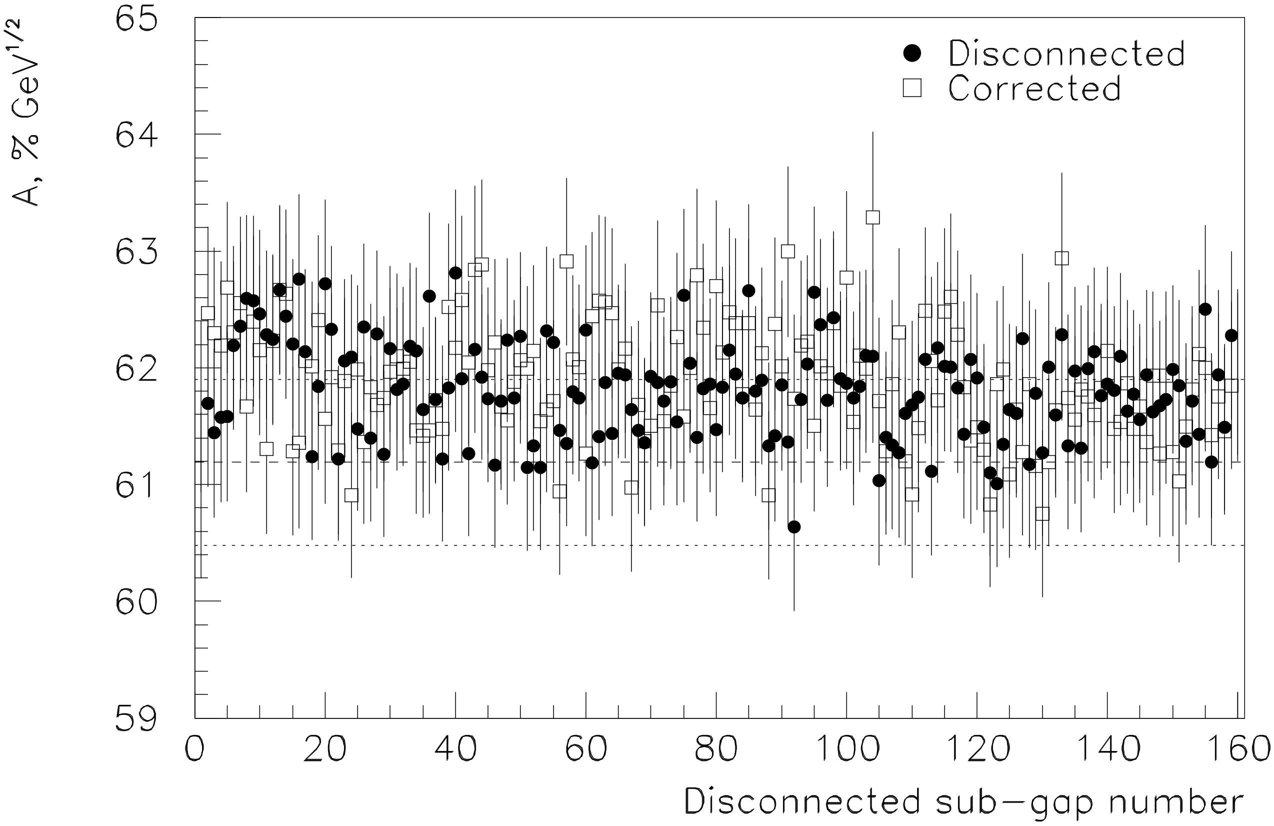


Reconstructed visible energy

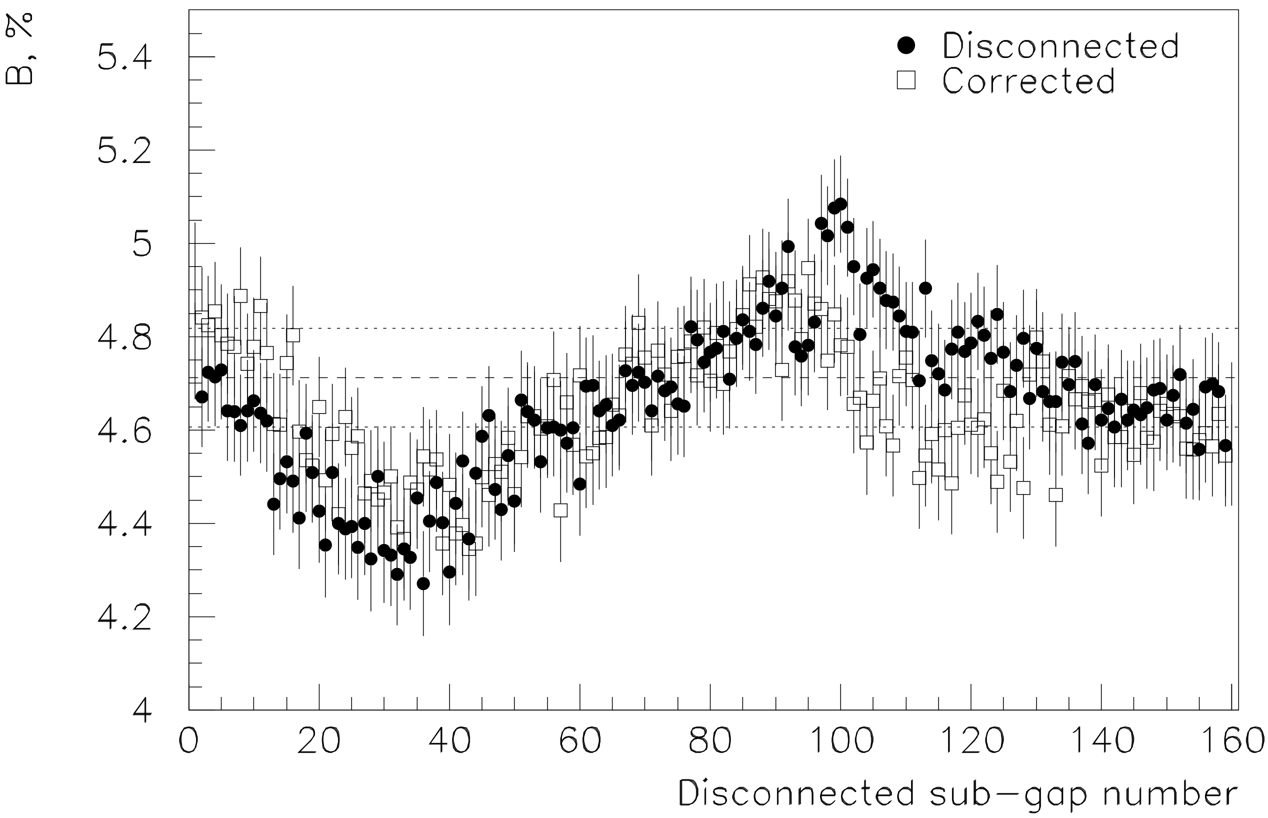


Resolution

Pions at Point M (1999)



Sampling term



Constant term