Status of Strip Clustering

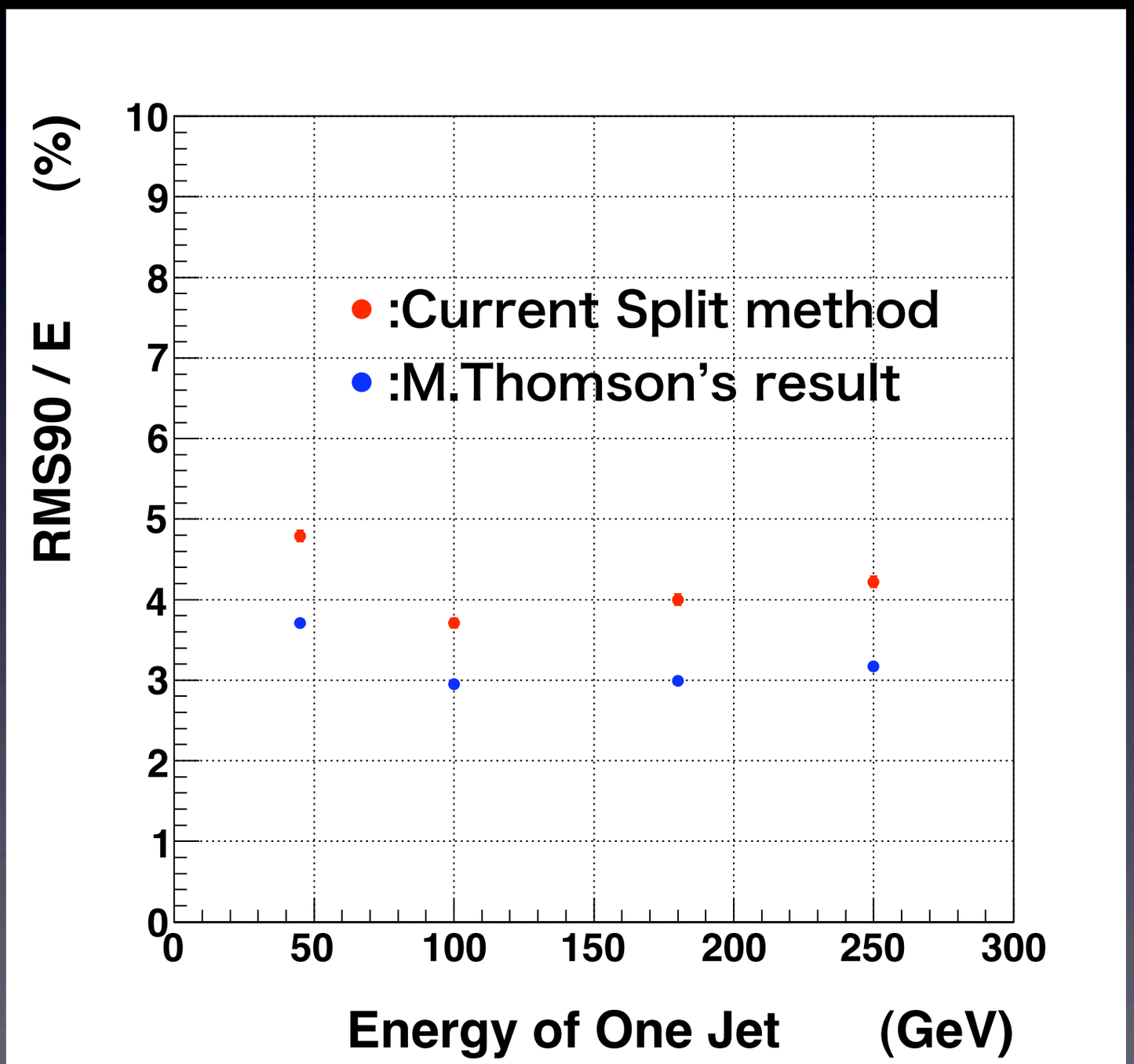
K. Kotera, Shinshu university

ILD-Asia Physics-Software meeting

First October 2010

Problem: less performance than M.Thomson's

ilcsoft v01-07



The Energy dependence of the Jet energy resolution with the split method is the similar as the M.Thomson's result.

witn ilcsoft v01-09-02 NewPandoraPFA

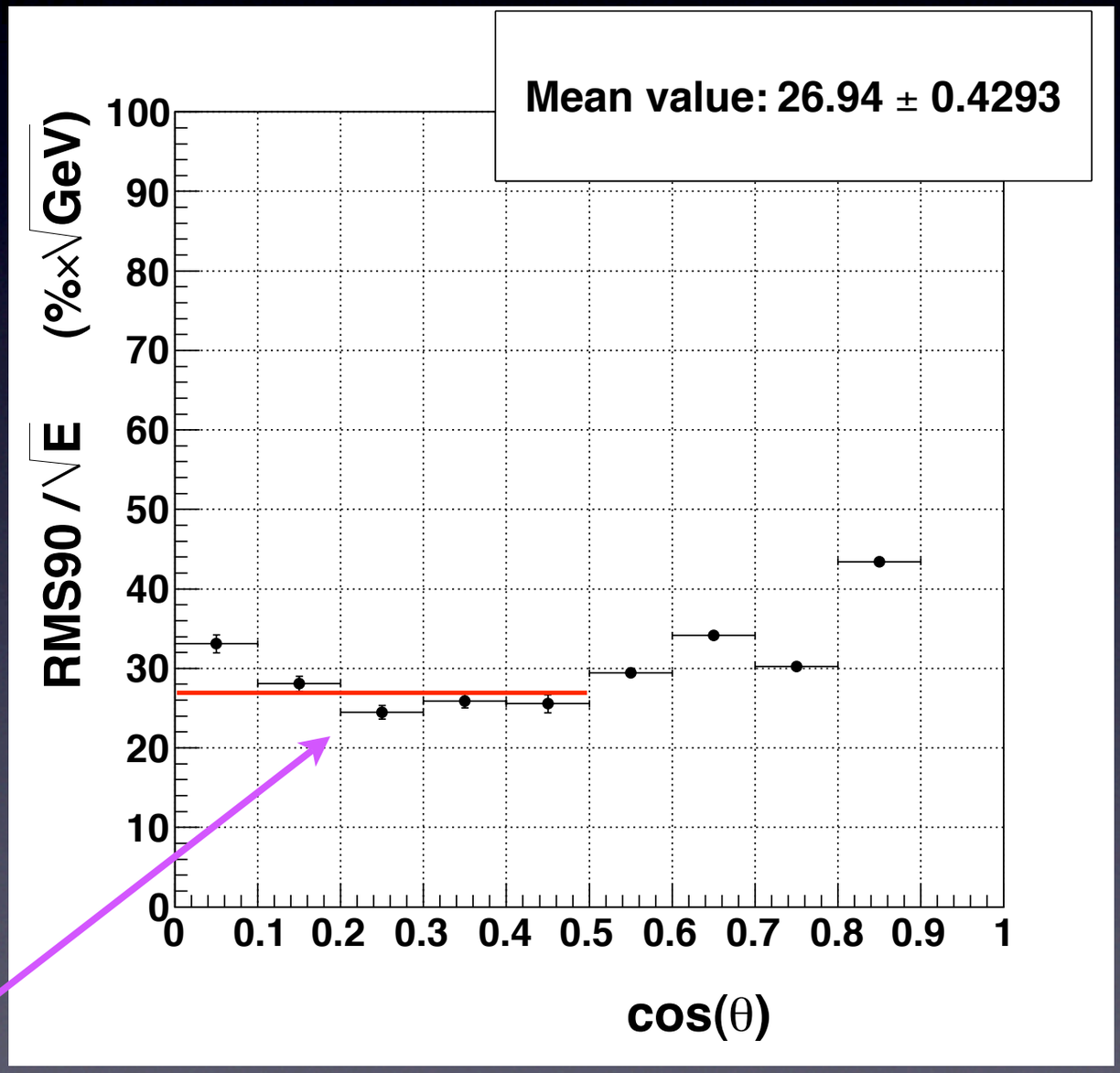
√s = 91 GeV, 5 mm x 5 mm cells for both

	SiECAL	ScECAL
RMS90/√E	26.1% (25.7% w/ KF)	26.9%
RMS90/E	3.9% (3.8% w/ KF)	4.0%

CalibrECAL
26.27 → 27.175
CalibrHCAL
34.8 → 30.1
ECalToMipCalibration
160.o → 112.72
HCalToMipCalibration
34.8 → 39.44

27.9%

26.9%



M field effect?

Status

- Study with the latest version of New PandoraPFA has been started (ilcsoft v01-09-02, PandoraPFANew v00-02).
- Latest version of “directly made strip” ScECAL in Mokka (Simultaneously Hybrid ECAL) has been built.
  - An error occurred in run ---> asked developer (Gabriel)