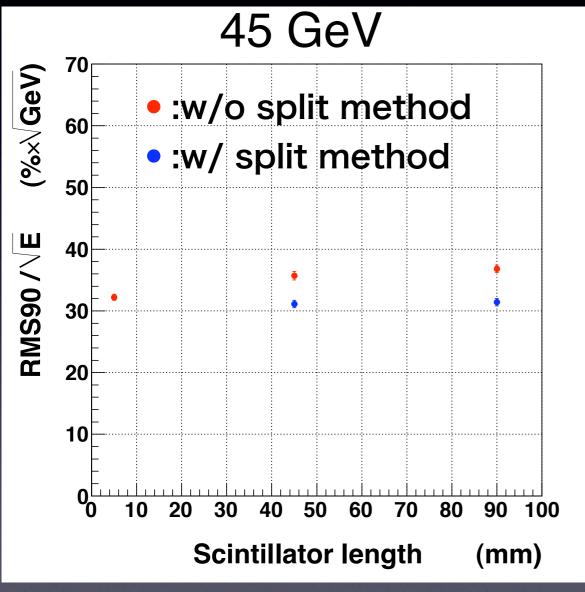
Status of the Strip Clustering

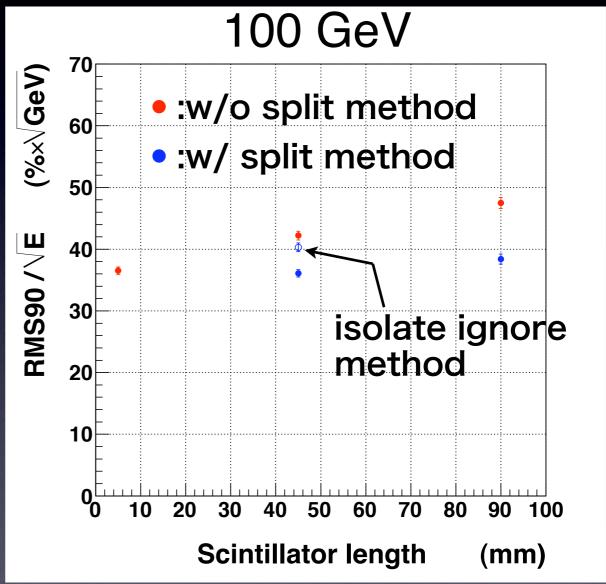
K. Kotera, Shinshu university
Physics and Software meeting of ILD Asia
30th July 2010

Sc. length dependence of the Jet energy resol.n

Scintillator width = 5 mm

Using "Center method": Energies in isolate hits are put on the center of strip.





- For 45 GeV Jets, the energy resolution (JER) is kept with split method for 90 mm scintillator strips.
- For 100 GeV jets, degradation of JER already starts with 90 mm strips.

summary of this talk

- 45 mm x 5 mm strip ScECAL with Split method has the same energy resolution (JER) as the one with 5 mm x 5 mm the square ScECAL not only for $\sqrt{s} = 91$ GeV but also for $\sqrt{s} = 200$ GeV.
- With even Split method, degradation of JER already starts with 90 mm strip ScECAL for √s = 200 GeV events, while it is still kept with 90 mm strip for √s = 91 GeV events.

ToDo

- Go into $\sqrt{s} = 360 \text{ GeV}$, 500 GeV
- To see the limit length of strip to keep the best JER (depending on \sqrt{s})
- Tune PandoraPFA parameters to get same or better Jet energy resolution as the M. Thomson's analyses. 30% / 25%
- Fix the problem with Druid (calorimeter hits after split method cannot be seen in Druid, even PFOs are reconstructed)
- Write code for the Endcap hits
- Boundary treatment
 - Stave Stave, Module Module, Endcap Barrel
- Fine Tune of Split method (to try some new ideas)
- Check the performance of Triplet method
- Use new Mokka (it intrinsically has strip shape ...)

Sc. length dependence of the Jet energy resol.n

