

Running PandoraPFA with a Digital HCAL

SiD PFA Meeting

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M. Stanitzki

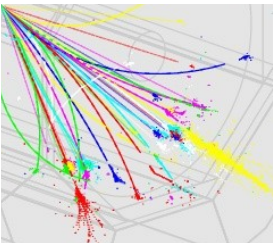


Ingredients

- use **LDC00** instead of **LDC00Sc**
- in **PandoraPFA 2.x**
 - **DigitalHCAL=1**
- In **MokkaCaloDigi**
 - **DigitalHCAL=1**
 - **adjust thresholds**

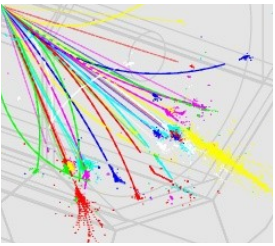


Status

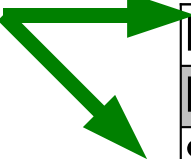


- Simulated two versions
 - LDC00
 - SIDish_RPC
- basically the same as LDC00Sc and SIDish
- Didn't change any of the cuts

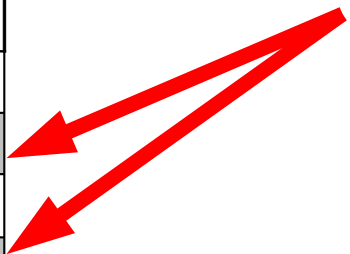




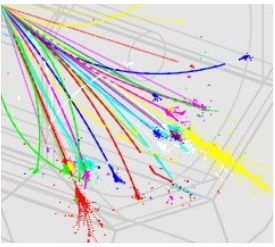
Results

Scintillator 

Detector	91 GeV		200 GeV	
	α %	Error	α %	Error
LDC00Sc	24.6	0.3	29.7	0.5
LDC00	27.0	0.5	31.7	0.6
SIDish	27.9	0.4	35.4	0.7
SIDish_rpc	31.7	0.5	38.9	0.7

RPC 

“Conclusions”



- Scintillator seems to be better than RPC for PandoraPFA
- Independent of radius
- Independent of segmentation
- will run with Scintillator in “Digital Mode”
- Similar conclusion as Ron so far

