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Parasitic ECal DAQ status

Jan 3rd12

Parasitic stage 1 setup

HPS - ECal status Jan 3rd 12





Purpose : make sure the detector signal is within the ADC gate window Method : use rectangular generator signal replacing output of

two contiguous channels trigger on single cluster with at least two crystals above threshold

4 configurations tested :

- with two versions of the trigger board firmware. Made faster by removing capabilities for hodoscope (not in use here)
- with the removal of cable length delay for the ADC gate signal





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20000 -run=68311 run=68311 30 ns ID = 446 ID = 447



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Result of the DAQ timing check

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Two-cluster trigger, calibration and energy reconstruction check

Energy calibration of the JLab bremsstrahlung tagging system

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Tagger time spectrum







Least energetic cluster position







Least energy vs transverse position



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Energy reconstruction performances before calibration

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Short-term plan :

perform calibration with the momentum(position) correlation of pairs

move to JLab fADC readout and check performances again