

ISU GEM development Update

Dustin McNulty

PREX GEM Meeting: 5/11/2018

Update

- We fixed problem from last meeting – where all our data was zero after first event: (Thanks to Bryan Moffit)
 - We now send a copy of the gate to the MPD (upper left (I0) input)
 - Also send Busy signal from ADC to coincidence module Veto input...
- We have now switched from using our v965 QDC to using the v1720 digitizer as our trigger – so we can dedicate the v965 to gain measurements
- We're starting to look at pedestal data and have pedestal sparcification built into our decoder
- Planning to setup a localized cosmic trigger to test mapping and functionality in the coming week.

Readout Hardware Update

- We now have all the 2-slot backplanes from the rework shop; we plan to check and label each of them with their address ranges and then their ready for shipment to SBU
- Digital Patch Panels have been delivered and tested; ready for shipment to SBU. Note we have not made Analog Patch Panels—you can still readout upto three 10x10's and one 10x20 GEM with two MPDs.
- We have updated one of our MPDs with version 4 firmware. The update seemed to be successful but we haven't been able to test yet because we need the version4 mpd coda library for our readout list. Bryan Moffit is working on it.
- Everything but the MPDs are ready for shipping. My coda setup only works with version3 firmware at the moment and there is a known issue with its VME backplane readout.
- Should we ship MPDs to SBU with version 3 or wait until version 4? Also, if you use your v965 as the trigger, then I can give you our coda drivers and readout lists.