



MaPSA-Light test beam

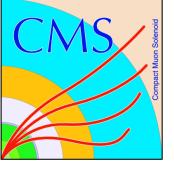
Kevin Nash



The System

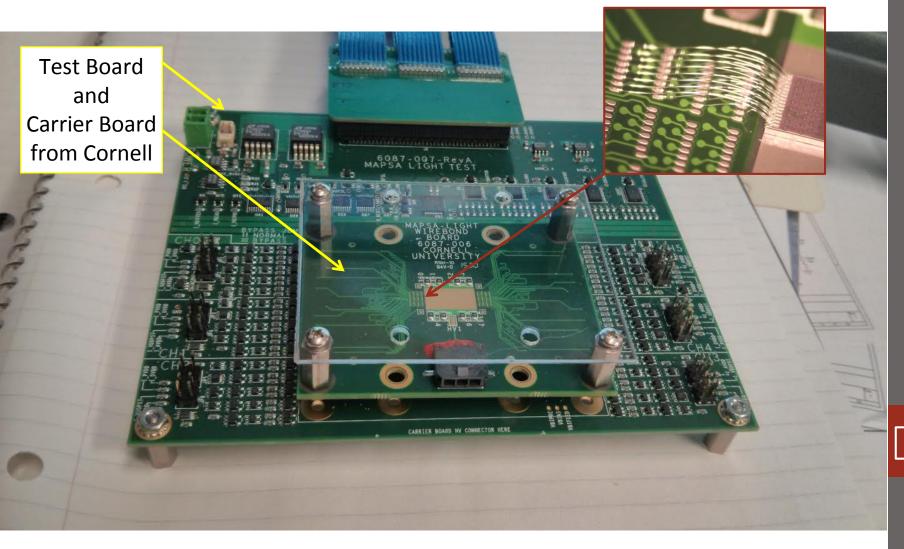


MAPSALight Assembly (6MPALight on a sensor) bonded to the carrier board Communicates with IP bus The GLIB Test board Ethernet Cable



The System



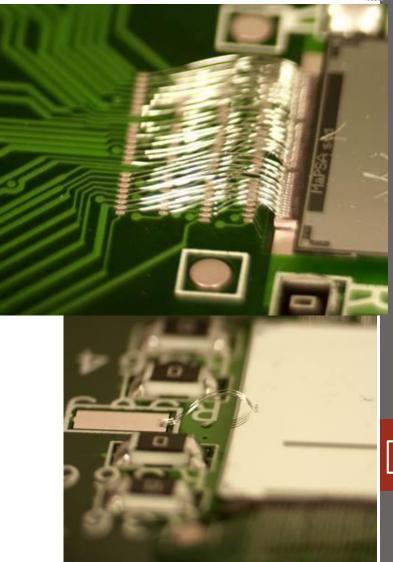




Hardware



- 10/21/15
- Bonded MaPSA-light to carrier board
 - Thanks to Bert Harrop at Princeton
- Bonded one from Novapack and one from Aemtec

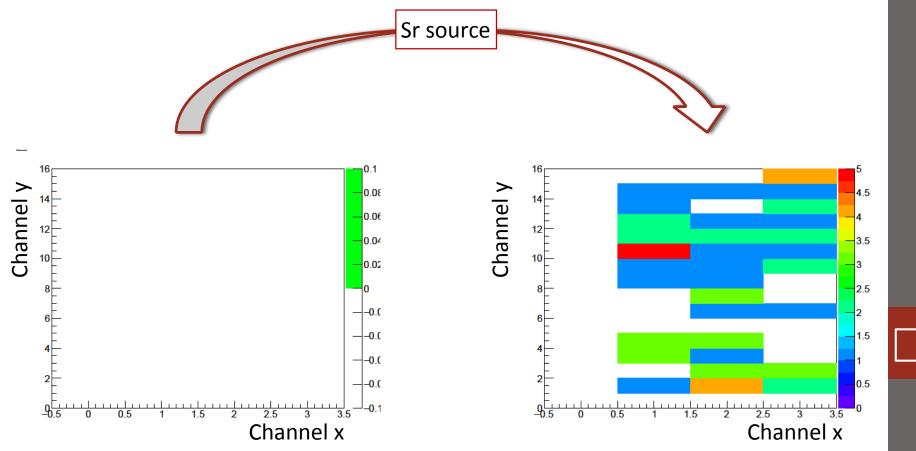








- 10/23/15
- First counts from MaPSA-light sensor

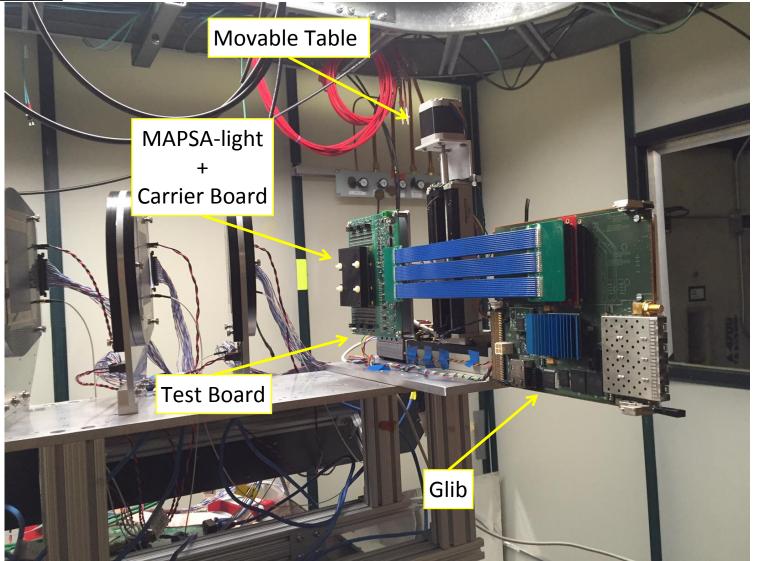






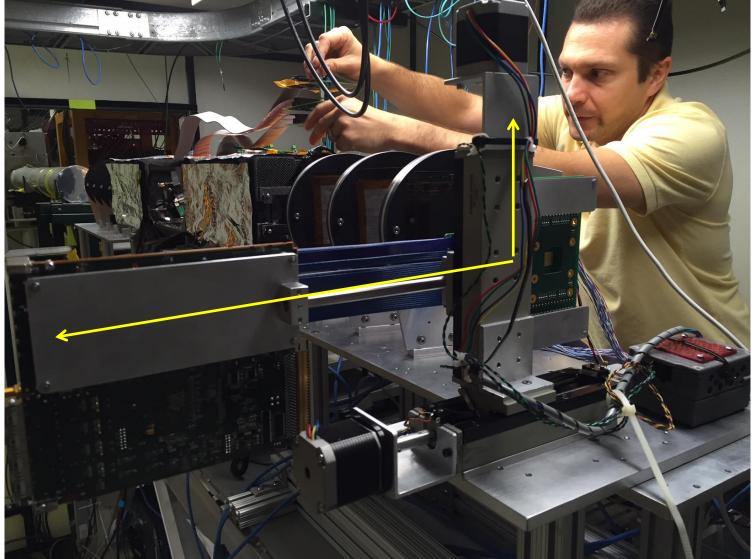
6

10/26/15





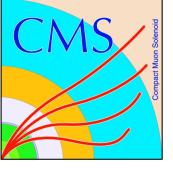








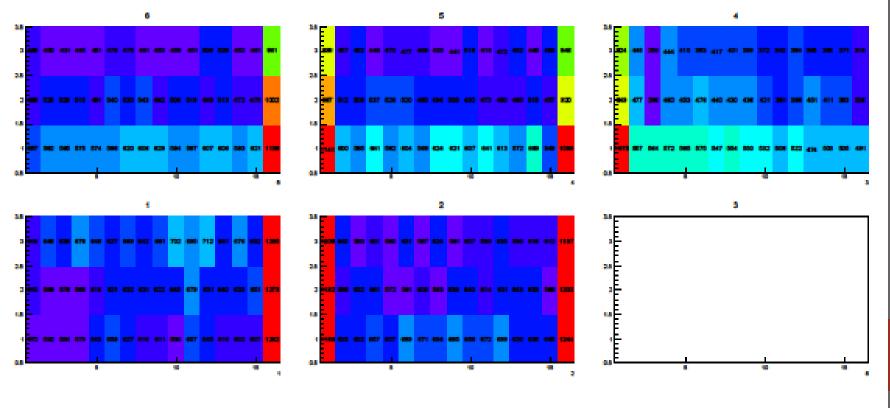
- Plots are very recent
 - No time to digest results
- Plotting macros thanks to Otto Hindrichs
- For each of the two assemblies there is one unresponsive MPA
 - Probably a wire bonding issue

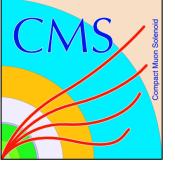




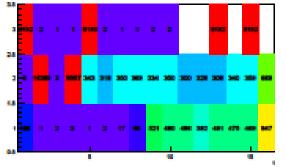
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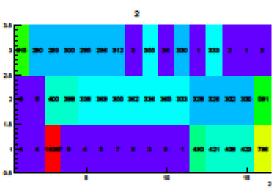
Novapack

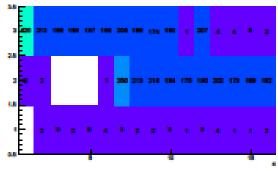


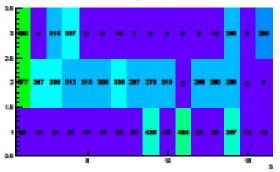










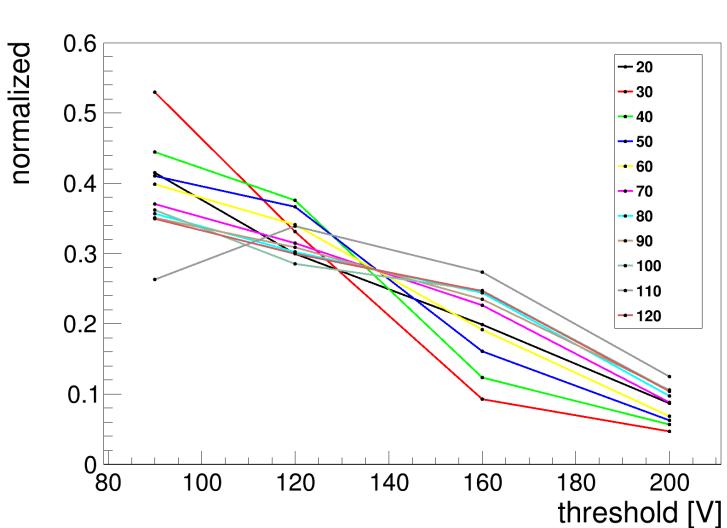




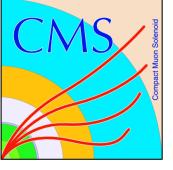


- Voltage scan
 - Change bias voltage from 20 to 120 S
 - Scan the threshold from 90 to 200
- Plot counts (normalized)
- Plot cluster 2 to 1 ratio

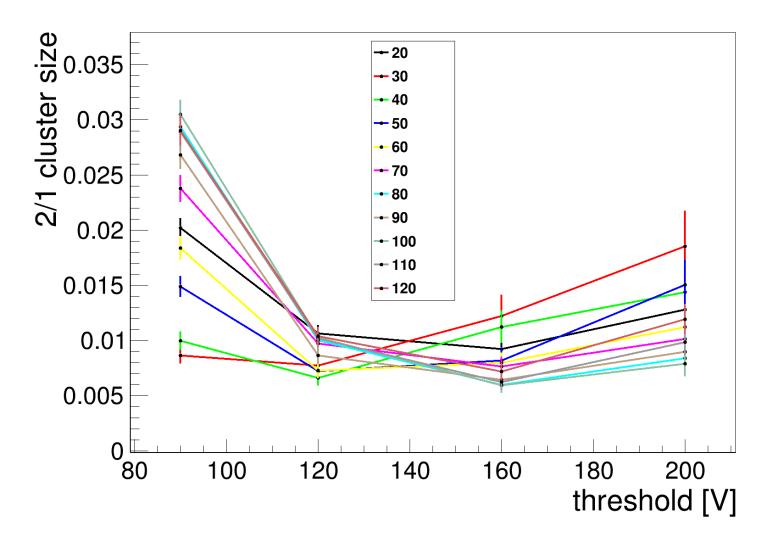




RUTGERS HALLISTERS



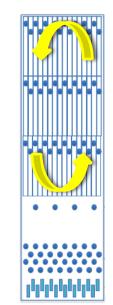


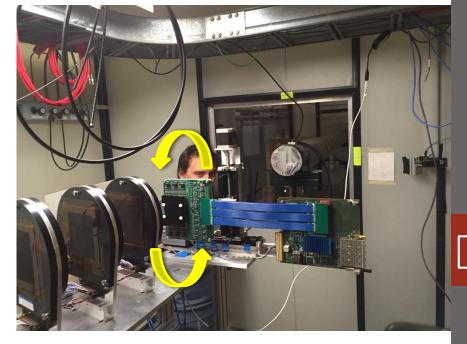


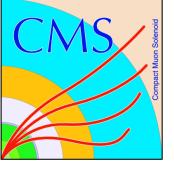




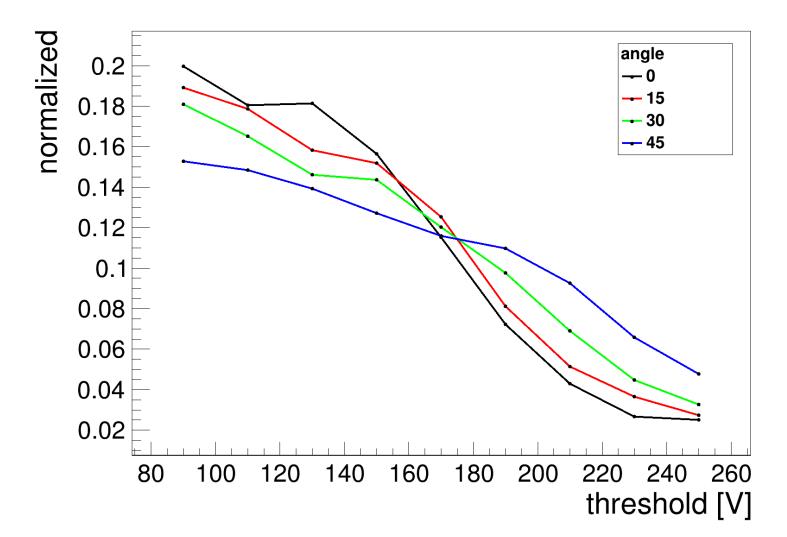
- Angle scan (vertical)
 - Change angle vertically and perform threshold scan
- Plot counts (normalized)
- Plot cluster 2 to 1 ratio





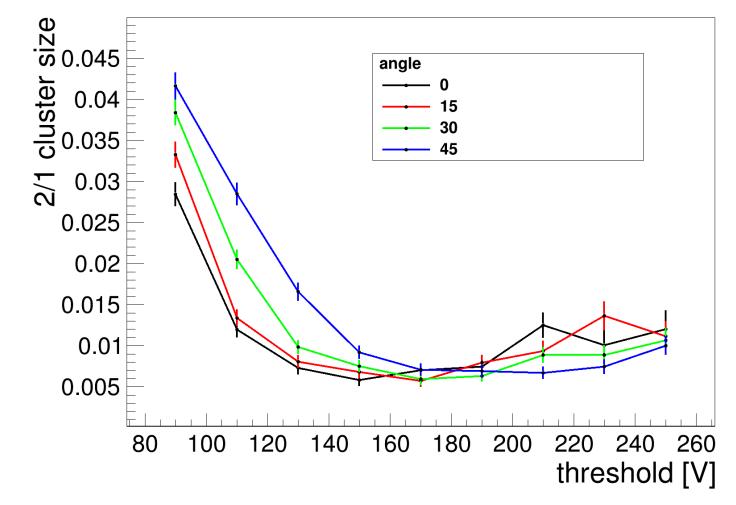








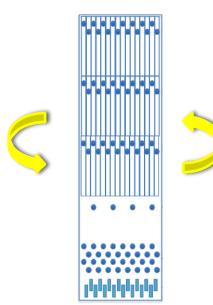


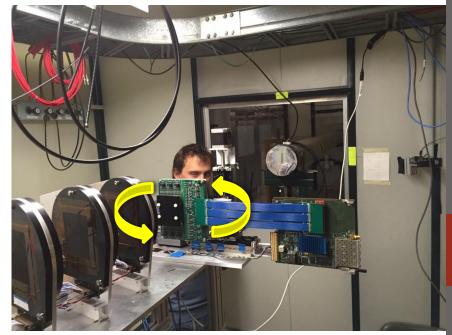






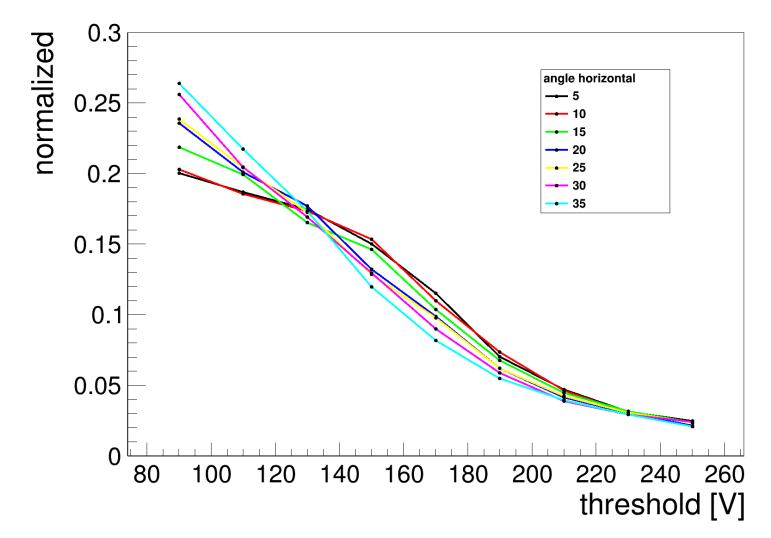
- Angle scan (horizontal)
 - Change angle horizontally and perform threshold scan
- Plot counts (normalized)
- Plot cluster 2 to 1 ratio

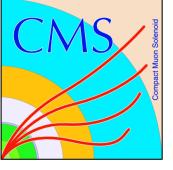




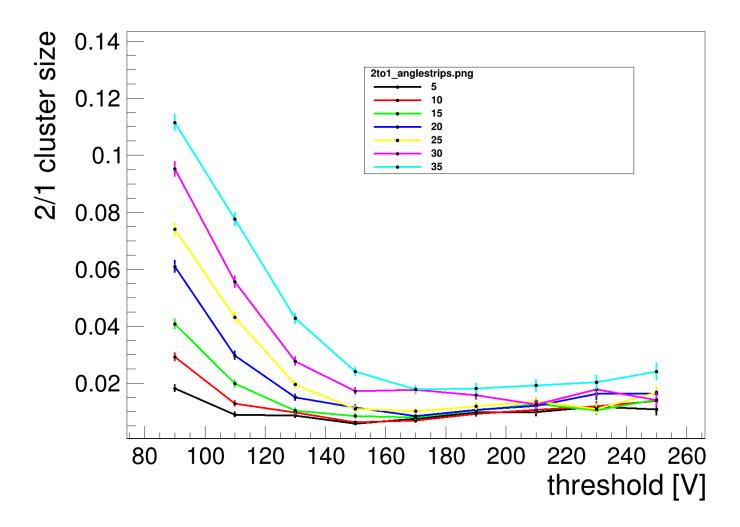
















- Work on the MI likely to be performed Monday and Tuesday
 - Only a few days left
- Three more sensors arriving tonight
 - Will repeat tests (depending on time)
- Trying to record triggers from the pixel telescope.
 - Need firmware updates