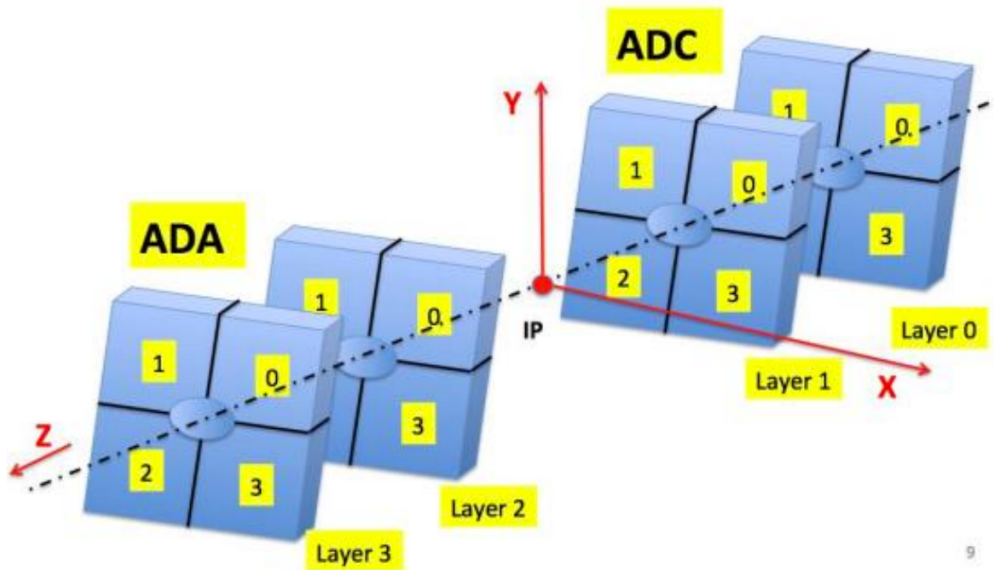


Calibration for AD

Calibration Forum 11/24/15

C. Mayer

AD detector



	ADC	ADA
z-center of package (m)	-19.5	17.0
η_{\min} (geometrical)	-6.9	+4.7
η_{\max} (geometrical)	-4.9	+6.3

E. Calvo

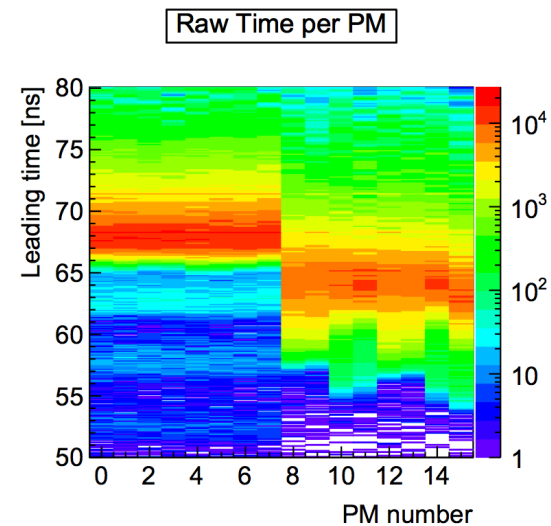
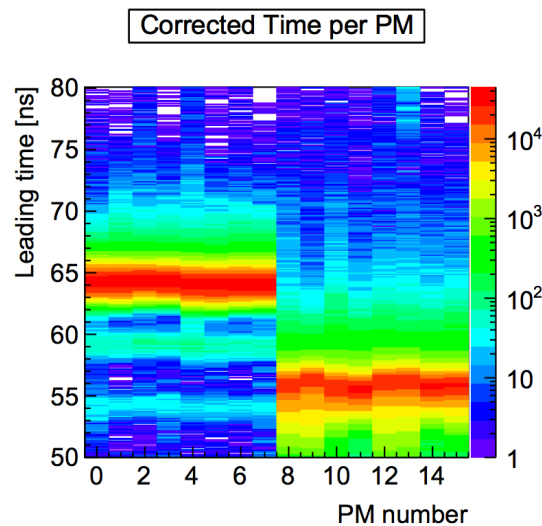
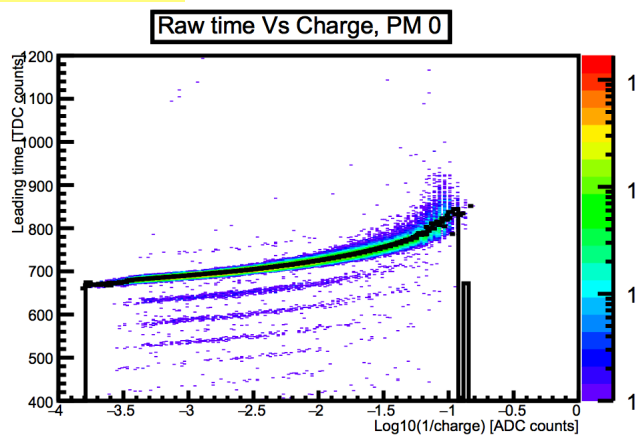
- 16 modules with scintillators
- Wavelength shifting bars -> clear fibers -> PMTs
- Same FEE used as V0
- Firmware is based on V0 firmware:
difference is coincidence between adjacent modules

Calibration

- All calibration is done in DAs running on the AD LDC
 - Usually no manual calibration is necessary
- Pedestals: for each pedestal run and each physics run
- Time-slewing correction: splines fitted to leading time vs. $\log_{10}(1/\text{charge})$

Run 226445

M. Broz



Calibration

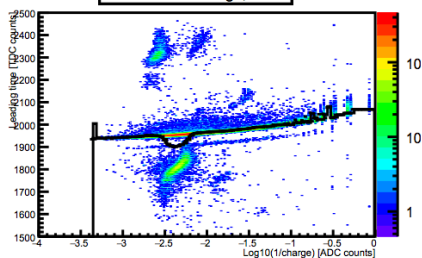
LHC15k, run 238966: time-slewing splines got deformed

➔ Manual adjustment is needed for this run

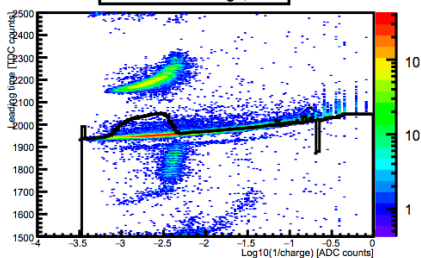
M. Broz

Run 238966

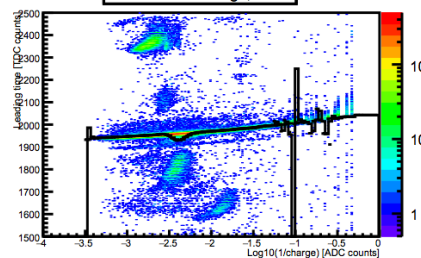
Raw time Vs Charge, PM 0



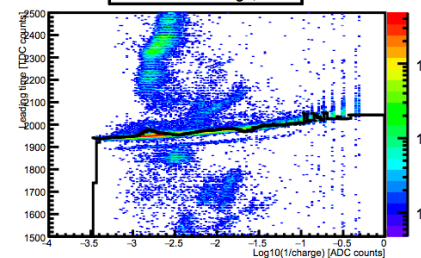
Raw time Vs Charge, PM 1



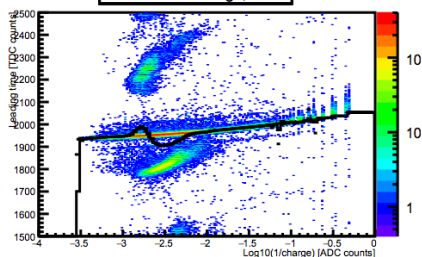
Raw time Vs Charge, PM 2



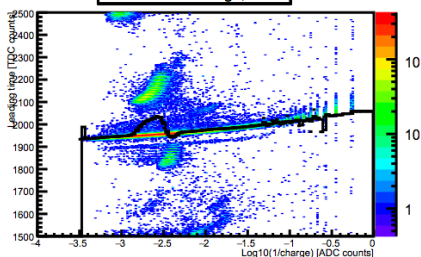
Raw time Vs Charge, PM 3



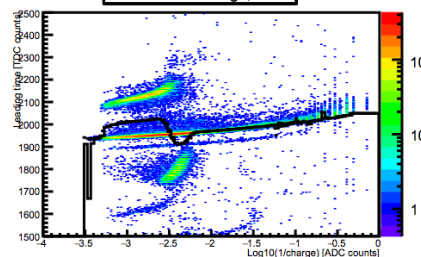
Raw time Vs Charge, PM 4



Raw time Vs Charge, PM 5



Raw time Vs Charge, PM 6



Raw time Vs Charge, PM 7

