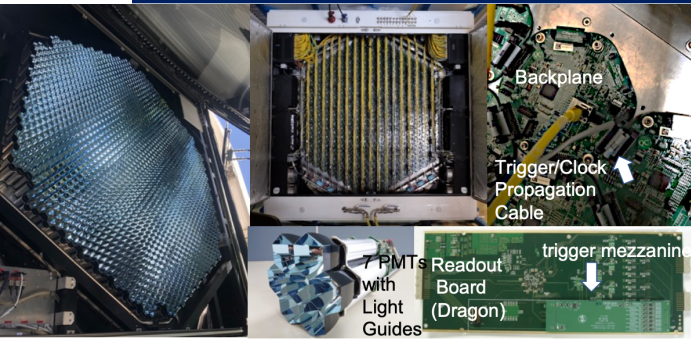


Commissioning of the camera of the first CTA LST



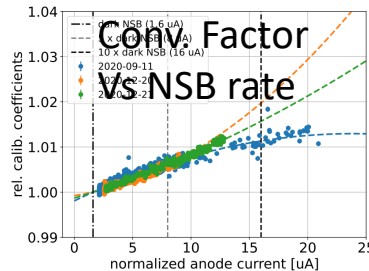
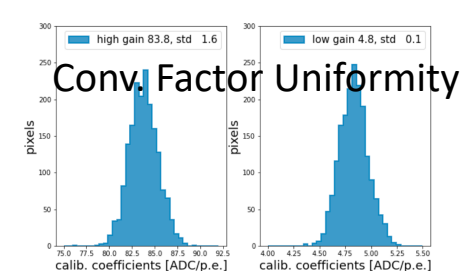
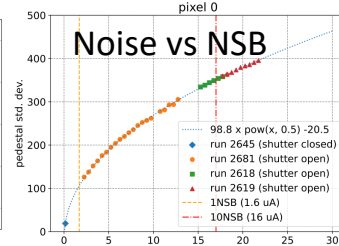
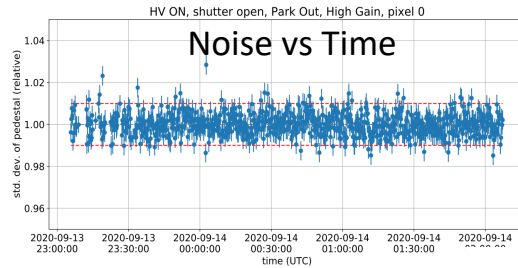
1. CTA LST Camera has:

- 1855 PMT pixels
- 4.5 degree FoV
- Analog Sum Trigger
- 60 Gbps bandwidth to the camera server

Commissioning started in October 2018

2. Readout Noise is:

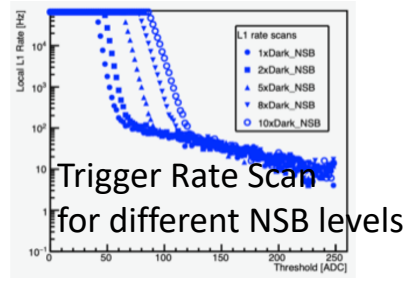
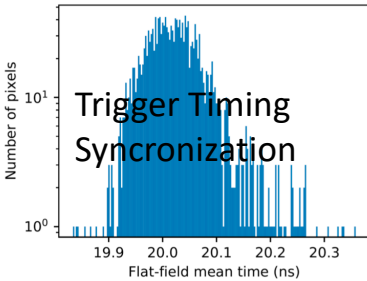
- Defined as Charge RMS of pedestal events
- ~ 0.2 p.e. level
- Stable within 1%
- $\text{Sqrt}(\text{NSB})$ dependence



3. ADC->P.E. Conv. factor is:

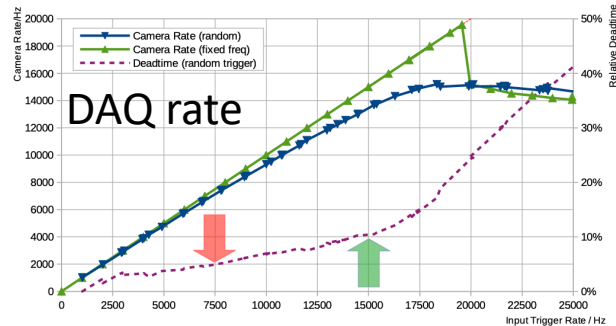
- Determined with F-Factor method
- Uniform with 2% over pixels
- Stable within 1% up to 10 x NSB

Commissioning of the camera of the first CTA LST



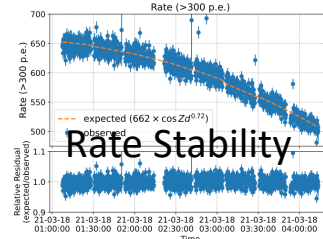
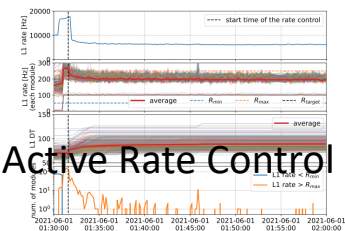
4. Trigger System:

- The threshold were well calibrated for all PMT modules, for different NSB levels.
- Trigger Distribution is synchronized within 150 ps precision



5. DAQ :

- It includes pre-process as well
- Up to 15 kHz possible
- 5% dead time at 7.5 kHz



6. Stable Observation:

- To deal with stars in FoV, trigger thresholds are adjusted automatically
- Stable within 1.5%
- $\cos(\theta_z)$ dependence is seen.