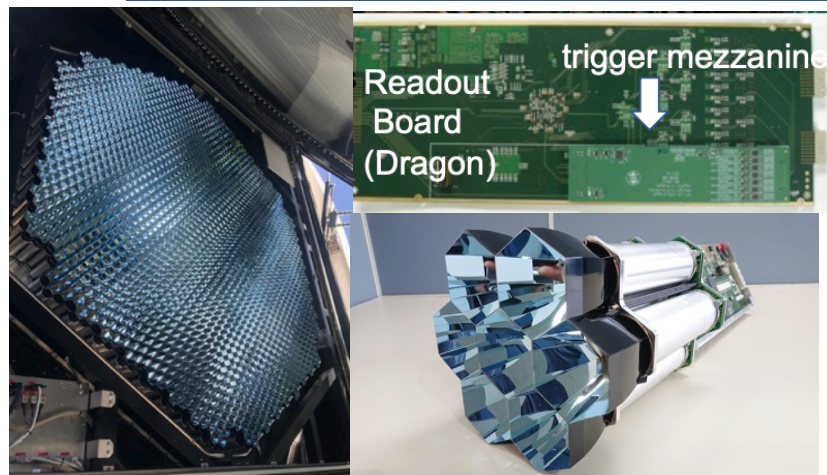


# Commissioning of the camera of the first CTA LST



## 1. CTA LST Camera:

- 1855 PMT pixels with the analog sum trigger.
- Commissioning started in October 2018

## 2. Readout Noise:

- 0.2 p.e. and stable within 1%
- $\text{Sqrt}(\text{NSB})$  dependence

## 3. ADC->P.E. Conversion factor:

- Uniform with 2% over pixels after HV adjustment
- Stable within 1% up to 10xNSB

## 4. Trigger System:

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

## 5. DAQ :

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

## 6. Stable Observation:

- Automatic Threshold adjustment
- The rate stable within 1.5%
- $\text{Cos}(Zd)^{0.72}$  dependence is seen.

