



Open RIXes



- •25 total (*=assigned to CTAO)
- •1 high priority on the « Commissioning plan » « unclear document classification » (#42738*)
- 3 connected to trigger documentation (#42500, #42493*,43939)
- 2 related to PMT/PACTA oscillations (#42506, #42404 (assigned to Pierre))
- 5 on the camera description/architecture document:
 - -missing thermal images of the camera (#42830)
 - -psf studies with realistic mirrors (could be taken from MST-STR) (#42751)
 - —linearity of Nectar (#42406*)
 - -deadtime « B-TEL-1260 not met » (42413)
 - –Power consumption (#42630*)

Open RIXes (2)



- 10 RIXes on the Camera User Manual
- Others:
 - Science verification (#42652), should include results of thermal tests
 - Ageing of the pulser => need to quantify (#42485)
 - Duration of LO delay calibration (being worked out by Patrick and François now) (#42503)
 - Rate of flat fielding events (#42488)

Open and assigned: 21/25

Status of scientific verification at CDMR



Requirement	Topic	Verification method	Verification status	Documentation status
B-TEL-0090	Signal to Noise	D	OK	OK
B-TEL-0095	UV Light Contribution	$_{\mathrm{T,M}}$	OK	OK
B-MST-1230	Minimum gamma amplitude	$_{\mathrm{T,M}}$	OK	OK
B-MST-1235	Minimum proton Amplitude	$_{\mathrm{T,M}}$	OK	OK
B-TEL-1010	Intensity resolution	$_{\mathrm{T,M}}$	OK	OK
B-TEL-1030	Time resolution	$_{\mathrm{T,M}}$	OK	OK
B-TEL-1170	Photon Efficiency	$_{\mathrm{D,M}}$	OK	OK
B-TEL-1280	Deadtime	\mathbf{T}	OK	OK
B-TEL-1260	Deadtime measurement	T	OK	OK
B-TEL-1300	Muon trigger	M	OK	OK
B-TEL-1320	Amplitude monitoring	T	TD	no
B-TEL-1370	Pedestal substraction	$_{\mathrm{T,M}}$	OK	OK
B-TEL-1390	Linearity	$_{\mathrm{D,T}}$	OK	OK
B-TEL-1410	Camera trigger timing	${f T}$	TD	OK
B-TEL-1440	Post-Calibration trigger timing	T	TD	OK
B-TEL-1430	Trigger-to-Image Timing	T	TD	OK
B-TEL-1380	Pixel Timing Uncertainty	T	OK	OK
B-TEL-1630	RTA intensity resolution	T	OK	OK
B-TEL-1640	RTA time uncertainty	T	OK	no

Progress since CDMR



Amplitude monitoring:

-Histogram of charge of third pixel in trigger patch, tested (François)

Camera trigger timing:

- -Measurement performed (thanks to APC help)
- -see Federica's talk on timing paper.
- -Difference between pre/post trigger timing not clear.

Post-calibration trigger to image timing uncertainty:

- Requirement not very clear
- Requirement to be verified from average pixel time measurement (done) and trigger timing (done)

Requirement verification documentation:

- At CDMR, « scientific » document written for (almost) all requirements
- For TRR, one need this document+a document formatted for CTAO+standard code to obtain the results.