**LRS Proposal Cycle13 Specification**

Low Resolution Spectrograph Mark III specification

* Spectrum domain 400 - 800 nm
* Observation mode: Slitless and Long slit
* Spectrum Resolution: R~250-750
* Slit size:
	1. Slit A: mechanical width 250 micron, mechanical length 16.5 mm unobstructed. On-sky angular width 2.5 arcsec, On-sky angular length 2.75 arcmin
	2. Slit B (1) (available for now): mechanical width 500 micron, mechanical length 16.5 mm unobstructed. On-sky angular width 5 arcsec, On-sky angular length 2.75 arcmin
	3. Slit B (2) (may be available in the future): mechanical width 125 micron, mechanical length 16.5 mm unobstructed. On-sky angular width 1.25 arcsec, On-sky angular length 2.75 arcmin

[Slit B (1) may be replaced by Slit B (2) some time during the season, depending on the proposals we received, etc.]

* Plate scale 0.2 arcsec
* Main Detecter specification:
	1. Model: Newton Andor DU920 BEX2-DD
	2. Array size: 1024x 255
	3. Pixel size: 26 x 26 micrometer





* Guiding Unit specification
1. Pickoff mirror
2. Model: ZWO ASI6200MM Pro(mono)
3. Full frame 36 x 24 mm
4. CMOS Sensor IMX455
5. Pixel Size 3.76 micron
6. Read noise 1.2e-3.5e
7. Resolution 9576 x 6388
8. Spectrograph FOV 3 arcmin
* Guiding Unit FOV
* Panda controller: specification and software interface
1. Calibration source: Cal3:Tungsten, Cal2: HgAr and Cal1: Neon (Spectral technology instrument company)
2. Sliding rail control: Grism position, Slit mode, and Calibration mode
	1. Software interface: 

* Interface MaximDL and ASI studio