



# Overview of Telescope Facilities

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Rubin In-Kind Program  
Trans-Pacific 2-meter Telescope  
Chow-Choong Ngeow (National Central University, Taiwan)

# Trans-Pacific 2mT (tentative)

@San Pedro Martir, Mexico

## Key Numbers

Aperture	2-meter
Wavelength range	Optical to near-IR
Instrument suite	4-band simultaneous imager (first-light); JHK imager and low-R spectrograph or IFU (to be added)
Other relevant facts	Site is <b>under construction</b> , expected to be completed in 2024, with 4 institutional partnerships across Pacific



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## The Telescope

- Ritchey-Chretien design
- Effective aperture: 2000 mm
- Focal ratio: primary F2.2 , combined F8
- Alt-Az mount with maximum slew rate of 4 deg/sec
- Three instrumentation mount points:  
Cassegrain and two Nasmyth platforms

## The Site

- Seeing: 0.7 arcsec; photometric nights: 70%;  
spectroscopic nights: 80%



# Trans-Pacific 2mT (tentative)

## Telescope Time Available

Expected ~40 nights per year, for 10-years, available to Rubin LSST community

## Applying for Telescope Time

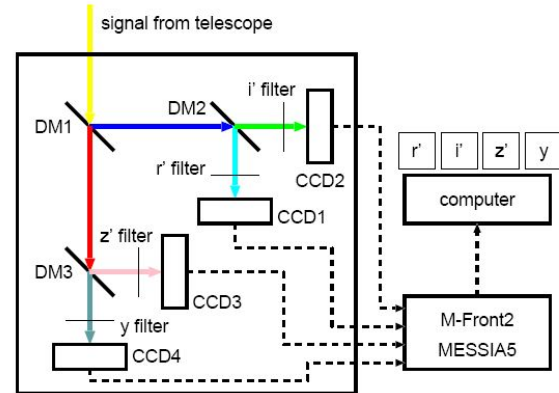
LSST community can apply time via the semester based NOIRLab TAC process

## Observation Scheduling

Time-allocation based on NOIRLab TAC outcomes; planning for fully queue observations and AEON compatible (under development); plan for flexible scheduling with multiple programs per night

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## Simultaneous Four-Color Imager



## Accessing data products

Data pipelines and archive are under preparation; expected data products are calibrated images and associated catalogs