



Chile-Japan Academic Forum 2018

in **Nikkō**

<http://eventos.cmm.uchile.cl/chilejapanforum2018/>

Workshop 1: Astronomy and Astronomical Instrumentation

26-27 September, 2018

http://www.ioa.s.u-tokyo.ac.jp/nikko2018_ws01/



Universidad de Chile

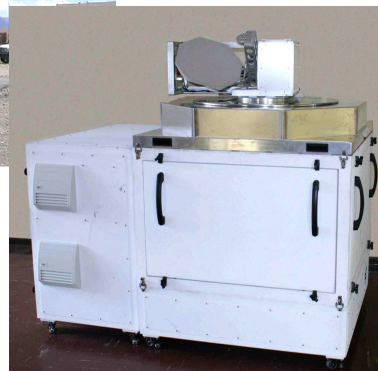


東京大学
THE UNIVERSITY OF TOKYO



PONTIFICIA
UNIVERSIDAD
CATÓLICA
DE CHILE

Chile and Japan: long collaboration history



- VST (60cm), NANTEN → NANTEN2 (4m)
- U. Tsukuba portable 30cm
- site test campaign, ASTE (10m) and ALMA



ALMA Band-1 with Chile
digital signal processing, etc..



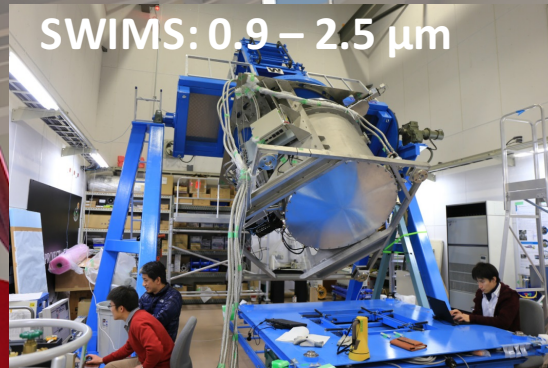
TAO : The university of Tokyo Atacama Observatory

the TAO AIUC High Resolution Y Band Spectrograph -- TARdYS

polarimetry w/ mini-TAO



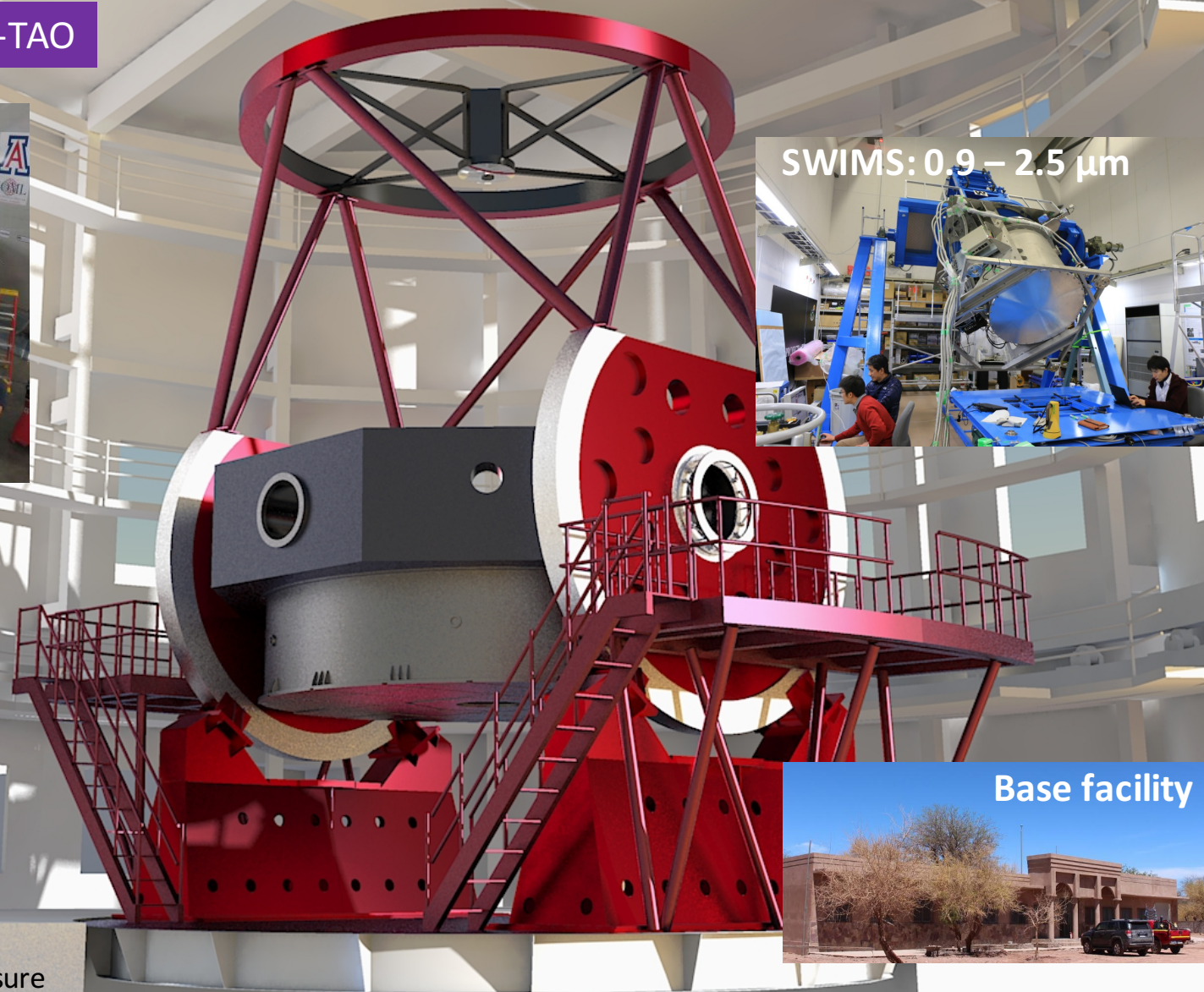
M1 (6.5m)



SWIMS: 0.9 – 2.5 μ m



MIMIZUKU: 2 – 38 μ m



Base facility

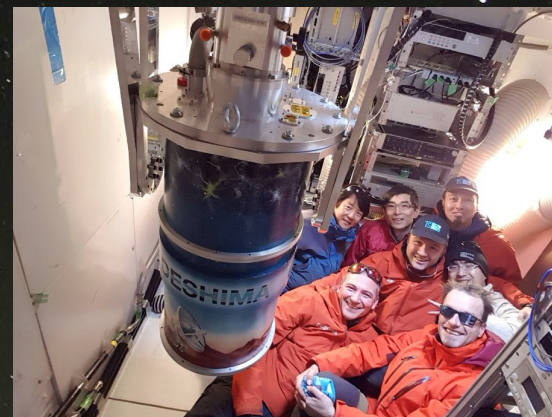
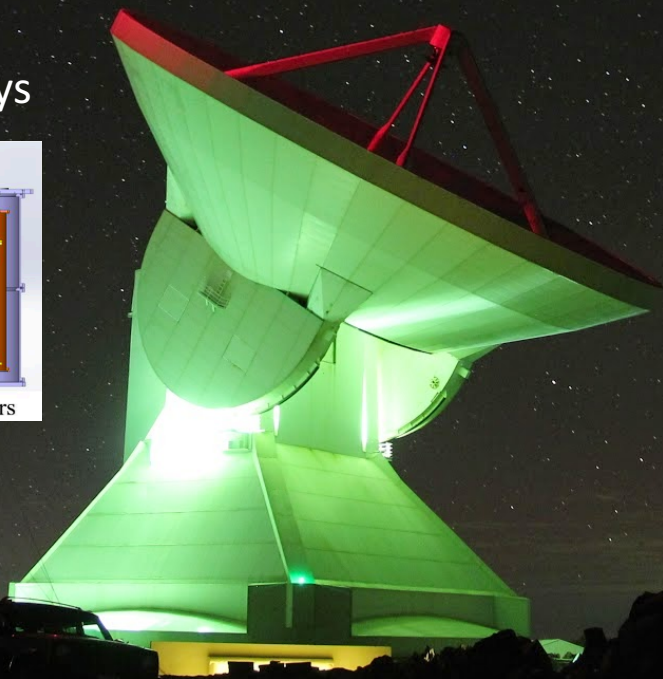
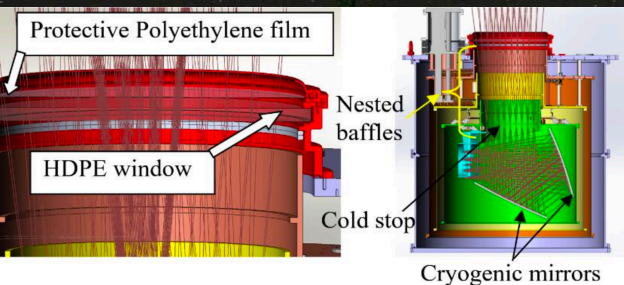
Illustration:
TAO telescope inside the enclosure

And more collaborations with Mexico, UK, ..

Large Millimetre Telescope (LMT) 50m @Mexico

on-chip super-conducting
spectrograph
DESHIMA/MOSAIC
on ASTE10m → LMT50m

MUSCAT & Toltech
for mm/submm deep surveys



And sharing science interests

- SNe and cosmology
- galaxy clusters, gravitational lensing
- wide-field optical surveys (Subaru/HSC/PFS and LSST), transients, deep learning
- ALMA deep surveys of lensing clusters (HFF-ALMA led by Chile → ALMA cycle-6 large program “ALMA Lensing Cluster Survey” of HFF/CLASH/RELICS (led by KK and Chile/US/EU co-PIs)
- Formation of stars and planets (60cm, NANTEN, ASTE, ALMA)
- and more

We have many reasons to have a joint workshop