Welcome to SWIMS Science Workshop 2015 !!

SWIMS Development Team

SWIMS18 Team



Before we start...

- Donation for coffee/tea and snack is welcome! ~500JPY/person
- Please send us your presentation before your talk !
 - They will be uploaded at http://www.ioa.s.u-tokyo.ac.jp/TAO/swims/index.php?Workshop201_5_

(user : swimsws2015 , pass : Atacama)

- Please tell us if there is any slide that cannot be open to public, as we are planning to open them after the workshop
- Wifi
 - SSID : SWIMS2015
 - Pass : TAO2018-Subaru2016-FL

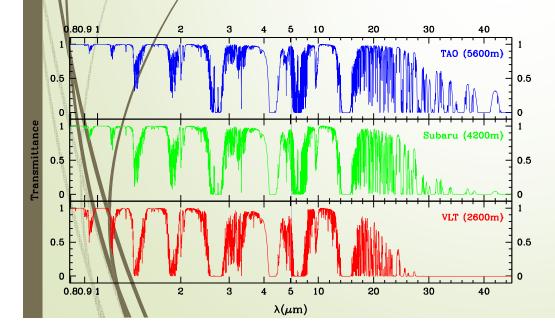


- Banquet at "Hiwa Ochite Sake Tanoshi"
 - Musashi-sakai Station
 - Leave IoA around 6:00PM
 - Please follow Hayashi-san
 - 4500JPY for staff ~ 3000JPY for students



The University of Tokyo Atacama Observatory (TAO) Project

- Construct a 6.5m IR-Optimized Telescope at the summit of Co. Chajnantor (5640m), at the highest altitude on the Earth.
- Utilize the broad atmospheric windows in the infrared.
- As a university-owned telescope, carry-out broad range of science from cosmology to solar-system objects







The Site

- ✓ Summit of Co. Chajnantor
 - 5640m altitude
- Excellent conditions
 - High clear fraction (82% photometric)
 - □ Good seeing(median 0.69" @ V-band)
 - Low water vaopr(PWV:0.85mm median)
- Obtained 50 year concession from Chilean government
- miniTAO 1m telescope installed



Current Status of the Telescope

- Started Construction by Hosei-Yosan on 2013
- Major components have been delivered
 - Structure, Mirrors (M1, M2, M3), M1 Cell and Actuators, AGSH, M1 Cell Cart, M1 Cleaner, Part of Enclosure



Primary Mirror at Arizona





Tertiary

Secondary





Telescope Mount, Preassembled at Nishiakashi



Mirror Cell Cart

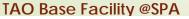


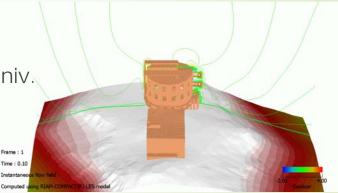
Current Status at Chile

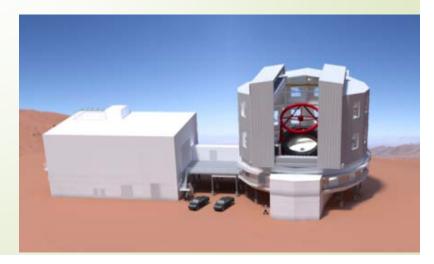
Summit Facility

- Basic design completed
- Foundation-soil investigation completed
- Wind simulation : In cooperation with Kyushu Univ.
- Base Facility at San Pedro de Atacama
 - Inauguration ceremony on Nov. 2014
 - In operation











Instrumentation Plan

Two 1st Generation Facility Instruments under construction

SWIMS (NIR 0.0.2.5µm / Imaging, MOS spectroscpy)

MIMIZOKU (MIR 2-38µm / maging, spectroscopy)





2nd Generation Instruments under preliminary design

- Optical Instrument (Optimized the the U-band Imaging and spectroscopy)
- High-dispersion Y-band Echelle Spectrograph (TARdYS : Lead by PUC/AIUC)



Schedule of the Telescope Construction

- ~2017 Spring : Completion of preassembly and tests of major components in Japan (telescope and enclosure) and in Arizona (mirrors and cells)
- Mid 2017 : Transport all the components to Chile, and start assembly of the telescope at the summit
- End of FY 2017 : First Light