

Chile–Japan Academic Forum 2018

Astronomy and Astronomical Instrumentation (Workshop 01)

last updated on 2018/9/18

Date : Sep 26 and 27, 2018

Venue : [Nikko Civic Hall](#) : Room A (Session 1–6) and Room C (Session 7–10)

Workshop Banquet

- Sep. 26 18:00–20:00
 - [Beer Restaurant "En-Ya"](#)
 - We will take a bus leaving at 17:47 from the nearest bus stop (a few minutes walk from the workshop venue).
 - [PDF](#)
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Introduction of the Workshop

Chile is one of the best site for the ground-based astronomy on the Earth, and now many large facilities in broad wavelength range from the optical to the radio are operated. Japanese institutes and universities are also running various telescopes in Chile, such as ALMA, TAO, NANTEN, and ASTE. However, interactions between astronomical communities of Chile and Japan is still limited. The aim of this workshop is to nurture interaction between researchers in both Chile and Japan, to promote exchange of students and post-docs, and to expand ongoing collaborations.

Program

Sep 26, Wed

09:00–	Registration		
09:20			
09:20–	Kotaro Kohno	(Univ. Tokyo)	Welcome and Opening Remarks
09:30			

Session 1 – Telescope and Instrumentation 1 (Chair : TBD)

09:30–	Leonardo	(Univ. Chile)	"Astronomical Instrumentation at Universidad de Chile" : (Abstract)
09:50	Bronfman		

- 09:50– Alvaro Gonzalez (NAOJ) ["ALMA future receiver development program at NAOJ"](#) : (Abstract)
- 10:10– Takayuki Kotani (NAOJ) [TBD](#)
- 10:30– Holger Drass (PUC) ["MOONS Metrology System"](#) : (Abstract)

Coffee Break

Session 2 – Cosmology & Hi-z Universe 1 (Chair : TBD)

- 11:20– Masahiro Takata (Univ. Tokyo) ["Precision Cosmology with Subaru HSC and PFS"](#) : (Abstract)
- 11:40– Alejandra Muñoz Arancibia (Univ. Valparaiso) ["Lensing-corrected 1.1mm number counts in the ALMA Frontier Fields Survey"](#) : (Abstract)
- 12:00– Masamune Oguri (Univ. Tokyo) ["Calibrating galaxy clusters as natural telescopes"](#) : (Abstract)
- 12:20– Felipe Barrientos (PUC) ["Gas distribution in a a strongly lensed galaxy at z~2"](#) : (Abstract)
- 12:40– Bunyo Hatsukade (Univ. Tokyo) ["Obscured Star Formation in the Host Galaxies of Superluminous Supernovae"](#) : (Abstract)

Session 3 – Stars and Compact Objects (Chair : TBD)

- 14:30– Keiichi Ohnaka (Univ. Caltolica del Norte) ["First infrared interferometric mapping of the gas motion in the atmosphere of stars in late evolutionary stages"](#) : (Abstract)
- 14:50– Nobuyuki Kawai (Tokyo Institute of Tech.) ["X-ray and optical/NIR observations of black hole binaries"](#) : (Abstract)

Session 4 – Supernovae 1 (Chair : TBD)

- 15:10– Nozomu Tominaga (Konan Univ.) ["Transient survey and multi-messenger astronomy with Subaru/Hyper Suprime-Cam"](#) : (Abstract)
- 15:30– Takashi Moriya (NAOJ) ["High-redshift supernova survey with Subaru/Hyper Suprime-Cam"](#) : (Abstract)

Coffee Break

Session 5 – Cosmology & Hi-z Universe 2 (Chair : TBD)

- 16:20– Steve Eales (Cardiff Univ.) ["Dust-obscured galaxy formation in the redshift range \$3 < z < 9\$ "](#) : (Abstract)
- 16:40– Seiji Fujimoto (Univ. Tokyo) ["Metal-rich gas halo in the early Universe"](#) : (Abstract)
- 17:00– Nobunari Kashikawa (Univ. Tokyo) ["High-z protocluster survey by Subaru/HSC"](#) : (Abstract)

Forum Logistics Announcements

Sep 27, Thu

Session 6 – Astroninformatics / Joint session with Workshop 06 (Chair : Eduardo

Vera)

09:30– 09:50	Ennio Vivaldi	(Univ. Chile)	Opening Words
09:50– 10:10	Francisco Förster Burón	(Univ. Chile)	"The Universe in a stream: the challenge of astronomical alert brokers" : (Abstract)
10:10– 10:30	Guillermo Cabrera	(UdeC)	"Deep learning in Astronomy and its application to transient detection within the ALeRCE system" : (Abstract)
10:30– 10:50	Pablo Estevez	(Univ. Chile)	"Deep Learning for Image Sequence Classification of Astronomical Events" : (Abstract)

Coffee Break / Move to Room C

Session 7 – Telescope and Instrumentation 2 (Chair : TBD)

11:20– 11:40	Ricardo Finger	(Univ. Chile)	"Real-Time Digital Signal Processing for Radio Astronomy and Beyond" : (Abstract)
11:40– 12:00	Antonio Mario Magalhaes	(Univ. São Paulo)	"All-Sky Survey in Polarized Light" : (Abstract)
12:00– 12:20	Kentaro Motohara	(Univ. Tokyo)	"University of Tokyo Atacama Observatory 6.5m Telescope : Project Status 2018" : (Abstract)
12:20– 12:40	Sebastián Ramírez Niño	(PUC)	"The Tao AIUC high Resolution Y band Spectrograph – TARdYS" : (Abstract)
12:40– 13:00	Eunmi Chae	(Univ. Tokyo)	"A compact Ti:Sapphire astro-comb with 43 GHz repetition rate" : (Abstract)

Lunch

Session 8 – Cosmology & Hi-z Universe 3 (Chair : TBD)

14:30– 14:50	Kotaro Kohno	(Univ. Tokyo)	"ALMA deep surveys of blank fields and lensing clusters" : (Abstract)
14:50– 15:10	Tadayuki Kodama	(Tohoku Univ.)	"Galaxy cluster formation revealed by Mahalo-Subaru and Gracias-ALMA" : (Abstract)
15:10– 15:30	Yoichi Tamura	(Nagoya Univ.)	"ALMA reveals early dust enrichment in a galaxy in the heart of reionization era" : (Abstract)

Session 9 – Supernovae 2 (Chair : TBD)

15:30– 15:50	Alejandro Clocchiatti	(PUC)	"A study of the superluminous Type Ia SNe 2007if" : (Abstract)
15:50– 16:10	Keiichi Maeda	(Kyoto Univ.)	"Testing the origin of type Ia supernovae through their properties in the first few days" : (Abstract)

Coffee Break

Session 10 – Star and Planet Formation (Chair : TBD)

16:40– 17:00	Elise Servajean	(Univ. Chile)	"G305: Looking into a stellar maternity with ALMA" : (Abstract)
17:00– 17:20	Andres Escala Astorquiza	(Univ. Chile)	"On the Mathematical Formulation of Empirical Laws." : (Abstract)
17:20– 17:40	Toshikazu Onishi	(Osaka Pref.)	"Physical properties and evolution of GMCs in the Galaxy and the Magellanic Clouds" : (Abstract)

Univ.)
17:40– Felipe Barrientos (PUC) Farewell and Closing Remarks
17:45

Forum Logistics Announcements

Co-Chairs

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