

Sakura CLAW Program

March 26-30, 2018

Koshiba Hall, School of Science, The University of Tokyo

* 15 min slot (10 min talk and 5 min questions)

* 25 min slot (20 min talk and 5 min questions)

** We aim to save ample time of questions and discussion for more interactions.

** The 15 min-slot speakers, please keep talk time of 10 min (sharp limit).

March 26

18:00-21:00 Welcome Drink and Registration (Sakura Cafe at Sendagi)

March 27

8:30 (30min) Light Breakfast and Registration (Koshiba Hall Lobby)

9:00 (10min) Opening Remarks and Logistics

----- Session 1: Deep Ly α Observations at the post EoR -----

Chair: James Rhoads

9:10 (25min) "The MUSE Hubble Ultra Deep Field survey" Roland Bacon

9:35 (15min) "On the spatial distribution of Lyman-alpha emission at $z>3$: Insights from MUSE" Lutz Wisotzki

9:50 (15min) "Probing the ISM at $z>3$ using rest-frame UV emission lines from MUSE Data of ~ 1000 LAEs" Kasper Schmidt

10:05 (15min) "HST-undetected LAEs from MUSE Spectroscopy" Michael Maseda

10:20 (15min) "Stacking HST data of MUSE LAEs to find Lyman continuum emission" Josephine Kerutt

10:35 Coffee break (Koshiba Hall Lobby)

10:50 (25min) " Lyman-alpha Emission in Low Metallicity Galaxies at $z\sim 2$ " Dawn Erb

11:15 (15min) "Gravitationally lensed Ly-alpha emitters studied with MUSE" Johan Richard

11:30 (15min) "Lyman Alpha and ISM properties of a spectroscopic sample of star forming galaxies at $1.5 < z < 3$ " Emil Rivera-Thorsen

11:45 (15min) "The Mean Ultraviolet Spectrum of a Representative Sample of Faint $z\sim 3$ Lyman Alpha Emitters" Kimihiko Nakajima

12:00 (15min) Poster short talks 1

12:15 (20min) Moderated discussion 1 (moderator: Tommaso Treu)

12:35 Lunch break & Poster (Room1042-1043, Conference Room#4, and Koshiba Hall Lobby)

----- Session 2: Large-Area Ly α Observations -----

Chair: Gary Hill

14:15 (25min) " Early Results of the Subaru Hyper Suprime-Cam Survey for Lyman Alpha

Emitters" Masami Ouchi

14:40 (15min) "Complex Ly-alpha Profiles in $z=6.6$ Ultraluminous Ly-alpha Emitters" Amy Barger

14:55 (15min) "Subaru/HSC Determination of Ly α Luminosity Function at $z=7.0$ " Ryohei Itoh

15:10 (15min) "Probing Cosmic Reionization at $z\sim 7$ with Lyman Alpha Galaxies from the LAGER Survey" Zhenya Zheng

15:25 (15min) Poster short talks 2

15:40 Coffee break & Poster (Room1042-1043, Conference Room#4, and Koshiba Hall Lobby)

16:15 (25min) "First Results on Lyman Alpha from HETDEX" Steve Finkelstein

16:40 (15min) "The Lyman Alpha Escape Fraction from $z \sim 2$ Star Forming Galaxies" Robin Ciardullo

16:55 (15min) "Studying Inhomogeneous Reionization at $z > 7$ using Lyman Alpha Surveys" James Rhoads

17:10 (15min) "A Magellan M2FS Spectroscopic Survey of Galaxies at $5.5 < z < 6.8$ " Linhua Jiang

17:25 (15min) "UV Luminosity Functions at $z\sim 4-7$ Derived with the Half-Million Dropouts on the 100 deg² Sky" Yoshiaki Ono

17:40 Poster session (Room1042-1043, Conference Room#4, and Koshiba Hall Lobby)

18:05 Moderated discussion 2 (20min) (moderator: Dan Stark)

18:25 Adjourn

18:30 Starting for Night Sakura Viewing Walk (~40 min: free/no registration required)

March 28

8:10 Light Breakfast (Koshiba Hall Lobby)

----- Session 3: Extended Ly α Sources and Absorbers -----

Chair: Matthew Hayes

8:40 (25min) " Observations of the Circum-Galactic Medium with CWI and FIREBALL-2 " Chris Martin

9:05 (15min) "Statistical properties of diffuse Ly α haloes around star-forming galaxies at $z \sim 2$ " Rieko Momose

9:20 (15min) "The origin of diffuse Ly α halos around LAEs" Haruka Kusakabe

9:35 (15min) "Ly α haloes of individual high- z galaxies detected with MUSE: Spectral analysis" Floriane Leclercq

9:50 (15min) "Deep HSC Lyman alpha imaging around a hyperluminous QSO at $z=2.84$ " Satoshi Kikuta

10:05 (15min) "ALMA observations of Lyman alpha blobs at $z=3.1$ " Yuichi Matsuda

10:20 Coffee break

10:40 (25min) " Illuminating the Cosmic Web with fluorescent Ly-alpha emission" Sebastiano Cantalupo

11:05 (15min) "Cross-Correlation Ly α Intensity Mapping with $z=5.7$ and 6.6 LAEs: Investigating Diffuse Ly α Emission in the Extremely Large Scale at ~ 30 - 1000 kpc" Ryota Kakuma
11:20 (25min) " Tomographic Mapping of the 3D Lyman-Alpha Absorption at $z\sim 2$ - 3 " Khee-Gan Lee
11:45 (15min) "Morphology and metallicity evolution of the circumgalactic medium" Ting-Wen Lan
12:00 (15min) "Testing the physical origins of an Enormous Ly α Nebula at $z = 2.3$ by bright background galaxies" Shiro Mukae
12:15 Moderated discussion 3 (20min) (moderator: Johan Richard)
12:35 Lunch break / Cherry blossom viewing lunch

----- Session 4: Ly α Observations at the EoR and Modeling Cosmic Reionization -----

Chair: Nobunari Kashikawa

14:15 (25min) " Constraints on cosmic reionization from Ly α studies: current state of affairs and outlook for JWST" Tommaso Treu
14:40 (15min) "Probing the end of the reionization epoch with Ly α observations of high- z galaxies" Laura Pentericci
14:55 (15min) "Resolved Star Formation in Galaxies Using Slitless Spectroscopy" Nor Pirzkal
15:10 (15min) Poster short talks 3
15:25 Conference photo
15:30 Coffee break & Poster (Room1042-1043, Conference Room#4, and Koshiba Hall Lobby)
16:00 (25min) " Spectroscopy of Lyman-alpha Emitters in the Reionization Era" Dan Stark
16:25 (15min) "Census of Ly α , [OIII]5007, Ha, and [CII]158um Line Emission with ~ 1000 LAEs at $z=4.9$ - 7.0 Revealed with Subaru/Hyper Suprime-Cam" Yuichi Harikane
16:40 (15min) "Kinematics in a $z = 7.15$ Lyman Alpha Emitter Revealed by the [OIII] 88 micron and [CII] 158 micron Lines Detected with ALMA" Takuya Hashimoto
16:55 (15min) Poster short talks 4
17:10 Poster session (Room1042-1043, Conference Room#4, and Koshiba Hall Lobby)
18:00 Moderated discussion 4 (20min) (moderator: Steve Finkelstein)
18:20 Adjourn

March 29

8:30 Light Breakfast (Koshiba Hall Lobby)

----- Session 4: Ly α Observations at the EoR and Modeling Cosmic Reionization (Cont'd)-----

Chair: Sebastiano Cantalupo

9:00 (15min) "On the role of galaxies and AGN in reionizing the IGM from spectroscopic galaxy survey in QSO fields" Koki Kakiichi
9:15 (15min) "Update on the patchiness of Lyman- α transmission over $5.9 < z < 6.1$ using 92 quasar lines of sight" Sarah Bosman

9:30 (15min) "A tale of seven narrow spikes and a long trough: constraining the timing of the percolation of HII bubbles at the tail end of reionization with ULAS J1120+0641" Jonathan Chardin
9:45 (25min) " Formation of Lyman-alpha emitting galaxies in overdense regions at the epoch of reionization" Hidenobu Yajima
10:10 Coffee break
10:40 (15min) "Understanding the first billion years with Lyman alpha and 21-cm" Andrei Mesinger
10:55 (15min) "Detectability of 21cm-signal during the Epoch of Reionization with 21cm-LAE cross-correlation" Kenji Hasegawa
11:10 Moderated discussion 5 (20min) (moderator: Jeremy Blaizot)
11:30 Announcements for the excursion and the banquet
11:45 Adjourn
12:10 Excursion: start of the tea ceremony (Kaitoku-kan & downtown Tokyo)
18:30 Banquet (KITSUNE at Shibuya)

March 30

8:30 Light Breakfast (Koshiba Hall Lobby)

----- Session 5: Modeling Ly α Sources -----

Chair: Andrei Mesinger

9:00 (25min) "Modeling Ly α in galaxy simulations" Jeremy Blaizot

9:25 (15min) "Modeling Lyman-alpha Emission with Galaxy Formation Simulations" Zheng Zheng

9:40 (15min) "Simulating Lyman-Alpha Sources in the Epoch of Reionization" Aaron Smith

9:55 (15min) "Impact of Ly α pressure on gas-rich, metal-poor galaxies" Taysun Kimm

10:10 Coffee break

10:40 (25min) "The escape of Ly α and LyC from galaxies" Anne Verhamme

11:05 (15min) "Simulating realistic Lyman-alpha spectra" Max Gronke

11:20 (15min) "A Novel Hybrid Scheme for Ly α Line Transfer" Masayuki Umemura

11:35 (15min) "Multi-wavelength radiative transfer in prototypical Lyman-Break Galaxies" Christoph Behrens

11:50 Moderated discussion 6 (20min) (moderator: Ken Nagamine)

12:10 Lunch break

----- Session 6: Local Ly α Emission and High-z Analog Observations -----

Chair: Dawn Erb

14:00 (25min) " Lyman alpha emission and absorption in low-redshift star-forming galaxies" Matthew Hayes

14:25 (15min) "The Lyman Alpha Reference Sample(s)" Goran Ostlin

14:40 (15min) "Relating SiII ISM transitions to Lyman-alpha in low-redshift galaxies" Hayley

Finley

14:55 Poster session (Room1042-1043, Conference Room#4, and Koshiba Hall Lobby)

15:35 (25min) " Are Green Peas the low-redshift analogs to Lyman-alpha galaxies" Sangeeta Malhotra

16:00 (15min) "Blueberry galaxies: the faint-end LAEs" Huan Yang

16:15 (15min) "Extremely Metal-poor Emission-line Galaxy Survey with Subaru/HSC" Takashi Kojima

16:30 Moderated discussion 7 (20min) (moderator: Goran Ostlin)

16:50 (20min+20min) Workshop summary

" Observational summary" Len Cowie

" Theoretical summary" Andrea Ferrara

17:30 Poster prize commendation

17:45 Concluding remarks

18:00 Adjourn