

Understanding Lyman-alpha Emitters

MPIA, Heidelberg, Oct. 6 – 10, 2008

Monday 6 October

9:30 – 9:40	Welcome by Hans-Walter Rix, director of MPIA
<i>Session:</i>	<i>Local Universe</i>
<i>Chair:</i>	<i>Caryl Gronwall</i>
9:40 – 10:10	Miguel Mas-Hesse: <i>Spectroscopic observations of Lyman-alpha emitters in the Local Universe (R)</i>
10:10 – 10:40	Matthew Hayes: <i>Lyman-alpha imaging of starburst galaxies at $z \sim 0$ (R)</i>
10:40 – 11:00	Hakim Atek: <i>The regulation of the Lyman-alpha Emission-Line in Star Forming Galaxies</i>
11:00 – 11:30	Coffee break
<i>Session:</i>	<i>Theory</i>
11:30 – 12:15	Daniel Schaerer: <i>3D Lyman-alpha radiation transfer and applications to starburst galaxies (R)</i>
12:15 – 12:35	Anne Verhamme: <i>Effects of Lyman-alpha radiation transfer in galaxies</i>
12:35 – 12:55	Mark Dijkstra: <i>The Polarization and Pressure of Scattered Lyman-alpha Radiation</i>
12:55 – 14:30	Lunch
<i>Chair:</i>	<i>Sangeeta Malhotra</i>
14:30 – 15:15	Ken Nagamine: <i>Theoretical Modeling of LAEs in the cosmological context of LCDM Model (R)</i>
15:15 – 15:35	Masao Mori: <i>Evolution in Lyman-alpha Emitters and Lyman-Break Galaxies</i>
15:35 – 15:55	Ikkoh Shimizu: <i>Theoretical Model of Lyman-alpha Emitters and the relation to Multi-Wavelength Observations</i>
15:55 – 16:30	Coffee break
16:30 – 16:50	Masakazu Kobayashi: <i>LAE in Hierarchical Galaxy Formation</i>
16:50 – 17:10	Jean Walker-Soler: <i>Physical Properties of Dark Matter Halos $z = 0, 0.8$ and 2.2 Descended from LAEs at $z = 3.1$</i>
17:10 – 17:40	Poster session I

Tuesday 7 October

<i>Session:</i>	<i>General properties I</i>
<i>Chair:</i>	<i>Wolfram Freudling</i>
9:15 – 10:00	Esther Hu: <i>Lyman alpha Emitters in historical and cosmic perspective (R)</i>
10:00 – 10:20	Caryl Gronwall: <i>The Luminosity function of $z = 3.1$ Lyman-alpha Emitters</i>
10:20 – 10:40	Robin Ciardullo: <i>The Star Formation and Dust Properties of $z = 3.1$ Lyman-alpha Emitters</i>
10:40 – 11:00	Lucia Guaita: <i>The Spectral Energy Distribution of LAEs at $2 < z < 3.1$</i>
11:00 – 11:30	Coffee break
11:30 – 11:50	Kim Nilsson: <i>Evolution in the properties of Lyman-alpha Emitters between redshifts $z \sim 3$ and $z \sim 2$</i>
11:50 – 12:10	Nina Hatch: <i>Flies in the Web: the satellite galaxies of a massive $z = 2$ forming galaxy</i>
12:10 – 12:30	Bram Venemans: <i>A detailed study of Lyman-alpha emission in $z = 3$ galaxies</i>
12:30 – 12:50	Poster session II
12:50 – 14:15	Lunch
<i>Session:</i>	<i>General properties II</i>
<i>Chair:</i>	<i>Daniel Schaerer</i>
14:15 – 15:00	Masami Ouchi: <i>Role of Ly-alpha Emitters in the History of Galaxy Formation (R)</i>
15:00 – 15:20	Yuki Nakamura: <i>The overview of our search for Lyman-alpha emitters and absorbers at $z = 3.1$</i>
15:20 – 15:40	Steven Finkelstein: <i>Understanding the Stellar Populations in Lyman Alpha Galaxies</i>
15:40 – 16:00	Yoshiaki Ono: <i>Stellar populations of $z = 3.1$ and 3.7 Lyman-Alpha Emitters with $K \sim 23 - 27$ from deep $0.5 - 8 \mu\text{m}$ photometry</i>
18:30	Conference dinner at Heidelberg Schloss

Wednesday 8 October

<i>Session:</i>	<i>Comparisons with other types of galaxies</i>
<i>Chair:</i>	<i>Klaus Meisenheimer</i>
9:15 – 9:45	Johan Fynbo: <i>LAEs are Different from Other High-redshift Galaxies (R)</i>
9:45 – 10:15	Eric Gawiser: <i>LAEs are Similar to Other High-redshift Galaxies (R)</i>
10:15 – 10:35	Naveen Reddy: <i>Connection between LAEs and LBGs</i>
10:35 – 11:10	Coffee break
11:10 – 11:30	Laura Pentericci: <i>The physical properties of high redshift Lyman-alpha emitting galaxies</i>
11:30 – 11:50	Aprajita Verma: <i>Intense starbursts at $z \sim 5$: First stellar mass assembly in the progenitors of present-day spheroids</i>
11:50 – 12:10	Bo Milvang-Jensen: <i>Lyman alpha emission from GRB host galaxies</i>
12:10 – 12:30	Helmut Dannerbauer: <i>Discovery of a multiply-imaged Lyman-alpha galaxy at the redshift of a SCUBA galaxy at $z = 2.56$</i>
12:30 – 14:00	Lunch
<i>Session:</i>	<i>Blobs</i>
<i>Chair:</i>	<i>Esther Hu</i>
14:00 – 14:20	Yuichi Matsuda: <i>A Panoramic Search for Lyman-alpha Blobs at $z = 3$</i>
14:20 – 14:40	Moire Prescott: <i>Exploring Sites of Galaxy Formation: Large Lyman-alpha Nebulae at $z \sim 2 - 3$</i>
14:40 – 15:00	Claudia Scarlata: <i>Extended Lyman-alpha Nebulae: cold accretion or Population III stars?</i>
15:00 – 15:20	Jim Geach: <i>The X-ray properties of Lyman-alpha Blobs</i>
15:20 – 15:40	James Colbert: <i>What power the Lyman-alpha Blob?</i>
15:40 – 16:10	Coffee break
16:10 – 16:30	Cedric Lacey: <i>Semi-analytical modeling of LAE evolution</i>
16:30 – 16:50	Alvaro Orsi: <i>The clustering of Lyman-alpha emitters in a LCDM Universe</i>

Thursday 9 October

<i>Discussion:</i>	<i>New Methods and Selection Methods</i>
<i>Chair:</i>	<i>Daniel Kunth</i>
9:15 – 9:35	Guillermo A. Blanc: <i>VIRUS-P Survey for Lyman-Alpha Emitters at $2 < z < 4$</i>
9:35 – 9:55	Michael Rauch: <i>Ultra-Deep Searches for Lyman-alpha Emission at $z \sim 3$</i>
9:55 – 10:15	Paolo Cassata: <i>The evolution of Lyman-alpha Emitters between $z = 2$ and $z = 6.7$: a sample of ~ 110 sources from VVDS spectroscopy</i>
10:15 – 11:00	Discussion
11:00 – 11:30	Coffee Break
<i>Discussion:</i>	<i>Morphology</i>
<i>Chair:</i>	<i>Nicholas Bond</i>
11:30 – 12:30	Discussion
12:30 – 14:00	Lunch
<i>Discussion:</i>	<i>What can the local Universe observations tell us about the high redshift Universe?</i>
<i>Chair:</i>	<i>Göran Östlin</i>
14:00 – 15:30	Discussion
15:30 – 16:00	Coffee break
<i>Discussion:</i>	<i>Clustering</i>
<i>Chair:</i>	<i>Harold Francke</i>
16:00 – 17:00	Discussion

Friday 10 October

<i>Discussion:</i>	<i>Theory – observational connection</i>
<i>Chair:</i>	<i>Sangeeta Malhotra</i>
9:15 – 9:45	Sangeeta Malhotra: <i>Informing theory with observations of Lyman-alpha emitters</i>
9:45 – 10:30	Discussion
10:30 – 11:00	Coffee break
<i>Discussion:</i>	<i>SED fitting</i>
<i>Chair:</i>	<i>Eric Gawiser</i>
11:00 – 12:30	Discussion
12:30 – 14:00	Lunch
<i>Discussion:</i>	<i>What are Lyman-alpha blobs?</i>
<i>Chair:</i>	<i>Toru Yamada</i>
14:00 – 15:30	Discussion
15:30 – 16:00	Concluding remarks – <i>Klaus Meisenheimer</i>
16:00 – 16:30	Coffee break

Poster Session I

Hidenobu Yajima	Escape fraction of ionizing photons from high- z Lyman alpha emitters and Lyman break galaxies
Luke Barnes	A joint model of the Lyman alpha emission and absorption properties of DLAs
Benjamin Clément	Measuring the Contribution of Low-Luminosity Sources to Cosmic Reionization with SINFONI
Pascale Hibon	A Lyman-alpha Narrow-band survey at $z = 7.7$ with WIRCam at CFHT
Masanori Iye	SuprimeCam ultimate $z \sim 7.3$ LAE survey with red-sensitive CCDs
Chris Lidman	Deep optical and near-IR spectroscopy of a very bright Lyman alpha emitter
Pierre North	Deep VLT spectroscopy of Ly-alpha envelopes around $z = 4.5$ RQQs
Matt Jarvis	Volumetric Ly-alpha searches with large-area integral-field spectrographs
Tomoki Saito	Unbiased survey for Ly-alpha blobs
Daniel Smith	A wide-field search for the brightest Lyman-alpha haloes
Yujin Yang	Extended Lyman alpha Nebulae at $z = 2.3$: An Extremely Rare and Strongly Clustered Population?

Poster Session II

Nicholas Bond	Broad- and Narrow-band Morphologies of Lyman Alpha Emitters at $z \sim 3$
Harold Francke	The Clustering properties of LAEs in MUSYC
Emily McLinden	Lyman Alpha Galaxies at $z \sim 3.1$: Probes of Large Scale Structure
Ernst Kuiper	A census of the galaxies in the protocluster around MRC 0316-257
Kouji Ohta	Stellar populations of LBGs at $z \sim 5$
Suraphong Yuma	Stellar populations of LAEs at $z = 4.8$
Toru Yamada	Line Profiles of Lyman Alpha Emitters
Göran Östlin	DoubleBlind