

Schedule for "Cosmic Evolution of Hydrogen and Helium", Ringberg Castle, March 24-27, 2009

Tuesday

title

Chair: S. White

9:00 AM 9:10 AM Simon White
 9:10 AM 9:40 AM Rashid Sunyaev

Welcome

The atomic physics of helium and hydrogen

Sources of Reionization Radiation

9:40 AM 10:10 AM Andrea Ferrara
 10:10 AM 10:40 AM Masami Ouchi

The sources of ionizing radiation: who reionizes what?

Reionization Studied by High-z Galaxy Observations

10:40 AM 11:10 AM coffee break

11:10 AM 11:30 AM Andrew Bunker
 11:30 AM 11:50 AM Hidenobu Yajima
 11:50 AM 12:10 PM Alaina Henry
 12:10 PM 12:30 PM Kazuaki Ota

The contribution of star-forming galaxies at $z > 5$ to reionization

The Contribution of Lyman alpha Emitters and Lyman Break Galaxies to the IGM Ionization at High-z

Expanding the Search for Galaxies at $z \sim 7-10$ with New NICMOS Parallel Fields

Deep Survey of $z=7$ Ly-alpha Emitters with the new red-sensitive CCDs on Subaru/Suprime-Cam

12:30 PM 2:00 PM lunch break

Chair: J. Bolton

2:00 PM 2:20 PM Mark Dijkstra
 2:20 PM 2:40 PM Akio Inoue
 2:40 PM 3:00 PM Gisella De Rosa
 3:00 PM 3:20 PM Sebastian Jester

Lyman Alpha Emitting Galaxies as a Probe of the Ionization State of the Intergalactic Medium

Subaru narrowband imaging survey of the Lyman continuum from star-forming galaxies at $z \sim 3$

Near-infrared SEDs of quasars at $z > 5$

The Pan-STARRS and LBT search for $z \sim 7$ quasars

3:20 PM 3:50 PM tea break

QSOs as Probes of Reionization

3:50 PM 4:20 PM Avery Meiksin
 4:20 PM 4:40 PM Martin Haehnelt

Quasar absorption lines: the view from hydrogen

Probing hydrogen reionisation with the Lyman-alpha forest

4:40 PM moderator: Haehnelt

Discussion

7:00 PM

Dinner

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Wednesday

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Chair: G. Becker

QSOs as Probes of Reionization

9:00 AM	9:30 AM	Cora Fechner	Quasar absorption lines: the view from helium
9:30 AM	9:50 AM	Gabor Worseck	Probing Hell reionization with GALEX-selected quasar sightlines
9:50 AM	10:10 AM	James Bolton	The impact of Hell reionisation on the HI Lyman-alpha forest
10:10 AM	10:30 AM	Antonella Maselli	On constraining reionization via transmission windows of the most distant quasars
10:30 AM	11:00 AM	coffee break	

The UV Background & Metals

11:00 AM	11:30 AM	Jennifer Scott	The metagalactic UV background
11:30 AM	11:50 AM	Lutz Wisotzki	The evolution of the cosmic UV background at high redshifts
11:50 AM	12:10 PM	Keri Dixon	The Evolution of the Helium-Ionizing Background
12:30 PM	2:00 PM	lunch break	

Chair: A. Meiksin

2:00 PM	2:20 PM	Valentina D'Odorico	The density field in the vicinity of QSOs
2:20 PM	2:50 PM	Emma Ryan-Weber	Metals as a probe of hydrogen reionization
2:50 PM	3:20 PM	Joop Schaye	Metals as a probe of helium reionisation
3:20 PM	3:50 PM	tea break	
3:50 PM	4:10 PM	George Becker	A Transition from Neutral to Highly-Ionized Metals in the z~6 IGM
4:10 PM	4:30 PM	Andrew Fox	O VI absorbers at z=2-3: Photoionized by Quasars or Tracers of Hot Gas?
4:30 PM	4:50 PM	J. Bagla for Girish Kulkarni	Metal Enrichment and Reionization Constraints on Star Formation
4:50 PM		moderator: Schaye	Discussion
7:00 PM			Conference Dinner

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Thursday

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Chair: B. Metcalf

Hyperfine Transition Lines

9:00 AM	9:30 AM	Saleem Zaroubi	Hyperfine transitions: the view from hydrogen
9:30 AM	10:00 AM	Jasjeet Bagla	Hyperfine Transitions: the view from Helium
10:00 AM	10:20 AM	Jonathan Pritchard	Lyman series photons and the 21 cm signal
10:20 AM	10:40 AM	Garret Mellema	Large Scale Simulations: properties of the 21cm signal

10:40 AM 11:10 AM coffee break

11:10 AM 11:30 AM Geraint Harker Extracting the 21cm power spectrum from the epoch of reionization

The CMB

11:30 AM	12:00 PM	Joanna Dunkley	Reionization and the cosmic microwave background
12:00 PM	12:20 PM	Vibor Jelic	The cross-correlation between the CMB and EoR maps

12:20 PM 2:00 PM lunch break

Chair: A. Maselli

Modeling Reionization

2:00 PM	2:30 PM	Stuart Wyithe	Semi-Analytic Models for the Reionization of Hydrogen and Helium
2:30 PM	3:00 PM	Ilian Iliev	Numerical simulations: the view from hydrogen
3:00 PM	3:30 PM	Matthew McQuinn	Numerical simulations: the view from helium

3:30 PM 4:00 PM tea break

4:00 PM	4:20 PM	Margarita Petkova	An Implementation of Radiative Transfer in the Cosmological Simulation Code GADGET
4:20 PM	4:40 PM	Jan-Pieter Paardekooper	Helium Reionisation With SimpleX: a Multifrequency Approach
4:40 PM	5:00 PM	Sebastiano Cantalupo	StART: a new adaptive radiative transfer code for cosmological AMR simulations

Reionization: Physical processes and feedback

5:00 PM 5:20 PM Andrei Mesinger UV Radiative Feedback During Reionization

5:20 PM moderator: Mellema Discussion

7:00 PM Bavarian Dinner

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Friday

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Chair: S. Wyithe

Reionization: Physical processes and feedback

9:00 AM	9:20 AM	Paul Shapiro	Cosmological Reionization: Radiative Feedback by the First Stars and Galaxies
9:20 AM	9:40 AM	Joaquin Prieto Brito	The effect of H ₂ , HD and LiH on the formation of first luminous objects
9:40 AM	10:00 AM	Daniel Whalen	The First H II Regions in the Universe
10:00 AM	10:20 AM	Milan Raicevic	Simulating the effects of large scale reionization on galaxy formation and evolution
10:20 AM	10:40 AM	coffee break	
10:40 AM	11:00 AM	Marcelo Alvarez	Connecting reionization and the local Universe
11:00 AM	11:20 AM	Joseph Munoz	Probing Reionization with Milky Way Satellites
11:20 AM	11:40 AM	Andrea Ferrara	conference summary & discussion
12:30 PM	1:30 PM	lunch	