Joint Discussion 07

THE UNIVERSE AT Z>6

Thursday August 17, 14:00 through Friday August 18, 17:30

Organized by Division VIII, Participating Commissions: 28 & 47

Scientific Organizing Committee: Andrea Ferrara (Italia, co-Chair), Esther M. Hu (USA), Matthew D. Lehnert (Germany), Roser Pelló (France), Daniel Schaerer (Switzerland, co-Chair), and Yoshiaki Taniguchi (Japan)

Editors of Proceedings: Daniel Schaerer, Andrea Ferrara

Thursday August 17

Session I. Lyman break galaxies, Lyman-alpha emitters and related objects

		Chair, D. Schaerer
14:00	Lyman break galaxies at z>6	(Invited) R.Bouwens
14:30	Subaru observations of the high-z universe	(Invited) Y. Taniguchi
15:00	Galaxies in the first billion years: implications for	A. Bunker
15.00	reionization and the star formation history at $z>6$	
15:20	A Spitzer/IRS search for the galaxies that reionized	M. Lacy
	the universe	
15:35	Coffee	
16:00	High-z lensed galaxies	(Invited) R. Pelló
16:30	New constraints on the comoving star formation rat	te R. Ellis
	in the redshift interval 6<10	
16:50	Observations of galaxies at z>6 – the properties of la	arge, E.Hu
	spectroscopic samples	
17:10	The properties of faint Lyman-alpha emitters at $z\sim 6$	e: results C. Martin
17:30	Closing	

Friday August 18

Session I. Lyman break galaxies, Lyman-alpha emitters and related objects (cont.) Chair, E. Hu

09:00	High-redshift Lyman-alpha galaxies	(Invited) S. Malhotra
09:35	An observational pursuit for Population III stars	T. Nagao
	in a Lyman-alpha emitter at z > 6 through He II Em	ission
09:55	The end of the reionization epoch probed by	NK. Kashikawa
	Lyman-alpha emitters at z=6.5	

Session II. High-z AGN and reionisation

10:15	Metallicy and black hole masses of $z \sim 6$ QSOs	J.D. Kurk
10:30	Coffee	
11:00	Populations of candidate black holes at redshift 7 or above	A.Koekemoer
11:20	Constraining the reionization history with QSO	S.Gallerani
	absorption spectra	
11:40	Size of HII regions around high redshift Quasars	A.Maselli
	vs intergalactic medium neutral hydrogen fraction at z~6	

Session III. Dust and GRB at high-z

12:00	Dust at high-z: observations and theory	(Invited) R. Maiolino
12:35	Lunch	
		Chair, A.Ferrara
14:00	Studying the first galaxies at centimeter and millimeter wavelengths	er C.Carilli

Spectroscopy of the near infrared afterglow of	N. Kawai			
GRB 050904 at z=6.3				
Implications for the cosmic reionization from the	T.Totani			
optical afterglow spectrum of the Gamma-Ray Burst 05090	4 at z = 6.3			
Session IV. Background radiation, reionisation, and modeling				
Cosmic Microwave Background: probing the (Invited universe from z=6 -1100	l) D.N. Spergel			
Coffee				
*Observational Constraints on Very Faint, High-z, Quasars	M. Dijkstra			
The first galaxy signatures in the infrared background,	A.Cooray			
cosmic microwave background, and the 21-cm background	l			
Additional sources of ionization in early universe and 21 cm line	E. Vasiliev			
Assessing the influence of metallicity on the fragmentation of protogalactic gas	AK. Jappsen			
UV radiative feedback on high-redshift proto-galaxies Closing	A. Mesinger			
	 GRB 050904 at z=6.3 Implications for the cosmic reionization from the optical afterglow spectrum of the Gamma-Ray Burst 050904 Session IV. Background radiation, reionisation, and mode Cosmic Microwave Background: probing the (Invited universe from z=6 -1100 Coffee *Observational Constraints on Very Faint, High-z, Quasars The first galaxy signatures in the infrared background, cosmic microwave background, and the 21-cm background Additional sources of ionization in early universe and 21 cm line Assessing the influence of metallicity on the fragmentation of protogalactic gas UV radiative feedback on high-redshift proto-galaxies 			

* Late program change (5 aug, 2006)

POSTERS

0925 A.T. Bajkova A High-Accuracy Method for the Removal of Point Sources from Maps of the Cosmic Microwave Background

0641 L. N. de Silva A Universe With Both Decelaration And Acceleration

1557 G Liu CMB quadrupole induced polarisation from large scale structure.

1400 A. Verhamme Modeling z ~ 3 Ly-alpha spectra to gain insight into high redshift Ly-alpha emitters

1536 A. Hempel News from $z \sim 6-10$ galaxy candidates found behind gravitational lensing clusters

1499 G.R. Burbidge Nucleosynthesis without a beginning

0147 Sohrab Rahvar Observational test on a generalized theory of Gravity

1954 K Ichiki Probing Weakest Extragalactic Magnetic Fields with Gamma-ray Bursts

1987 S Frey SDSS J0836+0054: a radio quasar at z~6 with a resolution of 40 pc

0391 LM Riofrio Space/Time, Supernovae, And The Faint Young Sun

0126 A.B. Morcos

Stability and Formation of Cluster of Galaxies, Galaxies, Clustars of Stars and Stars in Some Cosmological Models

1528 F. Walter Studying the first galaxies at centimeter and millimeter wavelengths

0366 Y. P. Wang Subaru deep imaging of the field of QSO 1508+5714 at z=4.28

1587 L. Chuzhoy The 21-cm Signature Of The Early Radiation Sources

1634 Jiri Krticka The mass loss from hot Pop III stars

1325 E. M. de Gouveia Dal Pino The spectrum of primordial gravitational waves