IAUS333 PROGRAMME - FINAL

Sun, 01 Oct 2017 17:30-19:00

REGISTRATION and WELCOME DRINK

08:30-09:00	REGISTRATION	
09:00-10:30 Session 1	Chair: M. Santos	
	Welcome	10mi
	Cosmic Dawn and Epoch of Reionization: theory and simulations	
A. Mesinger (IR)	Cosmic Dawn and Epoch of Reionization: theory and simulations	35mi
B. Greig	Simultaneously constraining the astrophysics of reionisation and the epoch of heating with 21CMMC	15mii
Y. Xu	Modeling the Neutral Islands during the Late Epoch of Reionization	15mi
JB. Durrive	Mean Energy Density of Photogenerated Magnetic Fields Throughout the Epoch of Reionization	15mii
10:30-11:00 Coffee Break		
11:00-12:30 Session 2	Chair: M. Santos	
K. Datta (IT - remote talk)	Towards simulating and quantifying the light-cone EoR 21-cm signal	25mii
E. Garaldi	Quasars at the Cosmic Dawn: effects on Reionization properties in cosmological simulations	15mii
J. Seiler	Exploring Reionization With Semi-Analytics: The Escape Fraction Strikes Back	15mii
H. Ross	Simulating X-ray heating during the Cosmic Dawn	15mii
P. Ocvirk	Cosmic Dawn II: radiation-hydrodynamics of galaxy formation during the epoch of reionization	15mi
12:30-13:30 Lunch Break		
13:30-15:00 Session 3	Chair: E. Chapman	
D. Aubert	The reionization epoch of z=0 halos.	15mii
S. Hassan	Reionization Models Classifier using 21cm Maps Deep Learning	15mii
R. Kooistra	Detecting HI 21 cm emission from the IGM in large scale filaments with current and future radio telescopes	15mii
K. Hoffmann	Signatures of Cosmic Reionization on the 21-cm 3-Point Correlation	15mi
G. Mellema	Analysis of Tomographic 21-cm Data	15mii
S. Majumdar	Quantifying the non-Gaussianity in the EoR 21-cm signal through bispectrum	15mi
15:00-15:30 Coffee Break		
15:30-17:00 Session 4	Chair: E. Chapman	
H. Padmanabhan (IT)	Neutral hydrogen in the post-reionization universe	25mii
M. Silva	Line Intensity Mapping during the Epoch of Reionization	15mi
	Cosmic Dawn and Epoch of Reionization: observations, challanges and first results	
S. Zaroubi (IR)	Cosmic Dawn and Epoch of Reionization: observational challanges	35mi
J. Bowman	Results from EDGES	15mii
3 Oct 2017		
09:00-10:30 Session 5	Chair: S. Zaroubi	
J.C. Pober (IT)	Results from PAPER	25mii

J.C. Pober (IT) R. Webster (IT) Results from PAPER Results from MWA-EoR

25min

L. Koopmans (IT)	Results from LOFAR-EoR	25mir
B.K. Gehlot	Epoch of Reionization on large angular scales with LOFAR and AARTFAAC	15mir
10:30-11:00 Coffee Break		
11:00-12:30 Session 6	Chair: S. Zaroubi	
B. Pindor	MWA Observations of EOR1 field	15mi
G. Bernardi	Measurements of the global signal from the Cosmic Dawn	15mi
B. McKinley	Measuring the Global EoR Signal using the Moon and the MWA	15mi
J.S. Dillon	Precision Calibration for 21 cm Cosmology with HERA	15mi
C. Trott (IT)	SKA-CD/EoR project	25mi
12:30-13:30 Lunch Break		
13:30-15:00 Session 7	Chair: G. Mellema	
R. Dr. Ghara	21-cm signature of the first sources in the Universe: Prospects of detection with SKA using matched filters	15mi
N. Thyagarajan	Status of Foreground and Instrument Challenges for 21cm EoR Experiments - Design and Analysis Strategies for SKA and HERA	15mi
R. Joseph	Redundant Calibration: Breaking the constraints of limited sky information	15mi
H. Shimabukuro	Analysing the 21cm signal with artificail neural networks	15mi
M.W. Eastwood	Full-Sky Maps of the VHF Radio Sky with the Owens Valley Long Wavelength Array	15mi
14:45-15:30 Coffee Break		
15:30-17:00 Session 8	Chair: G. Mellema	
	The first stars/galaxies, EoR and multi-frequency constrains	
M. Langer (IT)	CMB constraints on the EoR through the measurement of the Thompson optical depth	25mi
M. Haehnelt	Probing reionization with Lyman-alpha and 21cm emission/absorption	15mi
S.E.I. Bosman	The opacity of Lyman-alpha absorption up to z = 6.2 with a sample of 90+ z>5.7 quasars	15mi
N. Yoshida (IR)	First stars/galaxies and EoR	35mi
17:00-17:30 Coffee Break		
17:30-18:30	DISCUSSION	
4 Oct 2017		
09:00-10:30 Session 9	Chair: G. Bernardi	
	Galactic foreground science	
M. Haverkorn (IR)	Galactic foreground science: radio emission, polarisation, ISM and magnetic fields	35mi
S. Choudhuri	The angular power spectrum measurement of the Galactic synchrotron emission in two fields of the TGSS survey	15mi
C. Sobey (IT)	Using low-frequency pulsar observations to study the 3-D structure of the Galactic magnetic field	25mi
F. Boulanger	Statistical modelling of dust polarization as a CMB foreground	15mii
10:30-11:00 Coffee Break		
11:00-12:30 Session 10	Chair: G. Bernardi	
MA. Miville-Deschenes (IR)	Galactic foreground science: multi-wavelength approach to constrain ISM	35mi
S. Clark (IT)	Galactic HI and the Magnetic ISM Foreground	25mi
	Extragalactic foreground science	
A. Meszaros	Spatial distribution of the gamma-ray bursts at very high redshift	15mir
K Tinonia	A second second to second a second statistical transfer for the formation and second	4

K. Tisanic Average radio spectral energy distribution of highly star forming galaxies

15min

12:30-13:30 Lunch Break

16:30-17:30	GUIDED TOUR OF OLD TOWN DUBROVNIK sponsored by Dubrovnik Tourist Board meeting pont: in front of Tourist Information Office at Pile, Brsalje 5, Dubrovnik	60mir
19:30-22:00	CONFERENCE DINNER	
19.30-22.00	Gradska kavana Arsenal, Pred Dvorom 1 - Old Town Dubrovnik	
5 Oct 2017		
09:00-10:30 Session 11	Chair: T. van der Hulst	
I. Prandoni (IR)	Galaxies/AGNs and their evolution	35miı
M. Jarvis (IR)	Extragalactic foreground science: multi-wavelength approach and cosmic evolution	35mir
L. Ceraj	Radio luminosity functions of AGN with moderate-to-high radiative luminosities out to z~6 in the COSMOS field	15mir
10:30-11:00 Coffee Break	,	
11:00-12:30 Session 12	Chair: T. van der Hulst	
	The first stars/galaxies, EoR and multi-frequency constrains	
Z. lvezic (IT)	LSST and the Epoch of Reionization experiments	25mir
A. Fialkov	Tracing Cosmic Dawn	15mir
R. Laureijs	Observing the high redshift Universe with Euclid	15mir
G. Lagache (IT)	Exploring the dusty star-formation in the early Universe using CIB and [CII]-line intensity mapping	25mir
A. Hutter	Exploring 21cm - galaxy synergies	15mir
12:30-13:30 Lunch Break		
13:30-15:00 Session 13	Chair: TC. Chang	
	Foreground mitigation	
E. Chapman (IR)	Methods of foreground mitigation in the EoR	35mir
A. Bonaldi (IT)	EoR imaging with the SKA: the challenge of foreground removal	25mir
S. Murray	Between Window and Wedge: An Improved Statistical Point-Source Foreground Model for the EoR	15mir
	The first stars/galaxies, EoR and multi-frequency constrains	
E. Evan	A new public 21-cm EoR signal database, and how it can make your life sunnier	15mir
15:00-15:30 Coffee Break		
15:30-17:00 Session 14	Chair: TC. Chang	
B. Yue	Detecting the reionization galaxies through the gravitational lensing	15mir
G. Kulkarni	Evolution of the UV luminosity function of AGN and its implications for the 21 cm signal from the epoch of reionization	15mir
L.V. Toth	The structure of the ISM in the Zone of Avoidance by high-resolution multi-wavelength observations	15mir
C. Binggeli	LYCAN: The LYman Continuum ANalysis project	15mir
S. Giri	Constraining Lyman continuum escape using Machine Learning	15mir
C. Schmit	Emulation of reionization simulations for Bayesian inference of astrophysics parameters using neural networks.	15mir
18:15-21:15	PUBLIC TALK in Croatian and STARGAZING	
	The Museum of Modern Art Dubrovnik, Frana Supila 23, Dubrovnik	

09:00-10:30 Session 15

	Foreground mitigation	
A. Datta	Foreground Subtraction in redshifted 21cm Global Signal Experiments using Artificial Neural Networks	15min
L. Olivari	Intensity Mapping Foreground Cleaning with Generalized Needlet Internal Linear Combination	15min
F.G. Mertens	A non-parametric method for clean foregrounds removal in 21-cm EoR observations	15min
S. Yoshiura	Floreground mitigation strategy for measuring the 21cm-LAE cross-correlation	15min
	SUMMARY AND FINAL DISCUSSION	30min

10:30-11:00 Coffee Break 12:30-13:30 Lunch

IR an invited review IT an invited talk