

FGC2011, Zadar, Croatia

“Understanding Galactic and extragalactic foregrounds: A road to success for cosmological experiments”

CONFERENCE PROGRAM

Sunday (May 22)

18:00 - 19:00 **Registration & Welcome Drink**

Monday (May 23)

10:00 - 11:00 **Registration**

11:00 - 12:30 **Opening session**

Welcome (15min)

J. Dunkley : CMB science (RT)

G. Mellema: EoR science (RT)

12:30 - 14:30 lunch break

14:30 - 16:00 **Galactic magnetism & polarization (I)**

B. Gaensler : Galactic magnetism (RT)

W. Reich: Galactic polarization (RT)

K. Ferriere: “Theoretical aspects of the Galactic magnetic field”

16:00 - 16:30 coffee break

16:30 - 18:15 **Galactic magnetism & polarization (III)**

M. Haverkorn: Polarization/magnetism observations (IT)

R. Kothes: “Simulations of Radio Polarization Observations of Galactic Supernova Remnants”

X. Sun: “The low frequency Galactic polarisation foreground”

J. Geisbuesch: “Studying the Galactic radio foreground through the CGPS”

L. Fauvet: “Expected constraints on the Galactic magnetic field using the Planck data”

Tuesday (May 24)

09:00 - 10:30 **Extragalactic sources (I)**

M. Jarvis: Extragalactic sources (RT)

H. Rottgering: Clusters (IT)

N. Hurley-Walker: “10C 15-GHz Radio Source Survey: First Results”

10:30 - 11:00 coffee break

11:10 - 12:30 **Extragalactic sources (II)**

N. Aghanim: Early results of Planck: SZ (IT)

M. Peel: “OCRA: the One Centimetre Receiver Array” (SZ effect)

X. Chen: “Extragalactic Radio Sources Seen By Planck”

S. Righini: “The K-band Northern Wide Survey (KNoWS, egal @ 21GHz)”

12:30 - 14:30 lunch break

14:30 - 16:00 **CMB foregrounds (I)**

C. Dickinson: Overview of CMB foreground observations (RT)

A. Lazarian: Spinning dust (RT)

M. Todorovic: "A 33 GHz study of the Galactic plane of $l = 27$ to 46 deg"

16:00 - 16:30 coffee break

16:30 - 18:00 **CMB foregrounds (II)**

A. de Oliveira-Costa: Overview of CMB foreground simulations (RT)

N. Oppermann: "Reconstructing CMB foregrounds and the galactic Faraday sky"

S. Muchovej: "Foregrounds from a 31-GHz Sky Survey with the Sunyaev-Zel'dovich Array"

Wednesday (May 25)

09:00 - 10:35 **CMB foregrounds (III)**

C. Tibbs: "Spitzer characterisation of dust in an anomalous emission region: the Perseus Cloud - IRAC and MIPS"

T. Hoang: "Improved Model of Anomalous Microwave Emission from Spinning Dust"

EoR foregrounds (I)

G. de Bruyn: Overview of EoR foreground observations (RT)

10:35 - 11:05 coffee break

11:05 - 12:35 **EoR foregrounds**

V. Jelic: Overview of EoR foreground simulations (RT)

Instrumental effects & Ionosphere (I)

L. Koopmans: "Ionospheric Tomography for Low-Frequency Wide-Field Arrays"

V. Pandey: "The LOFAR off-line Processing System"

12:35 - 14:30 lunch break

15:00 - 17:30 Sightseeing by boat (meeting point: in front of Funimation Borik)

17:30 - 19:00 Guided tour of Zadar

19:00 - **Conference dinner** ("Arsenal", Trg Tri Bunara, Zadar)

Thursday (May 26)

09:00 - 10:30 **Foreground removal techniques (I)**

G. Harker: Foreground removal in EoR experiments (IT)

J. Delabrouille: Analyzing Planck data (IT)

A. Datta: "Bright Foreground Subtraction Requirements for Redshifted 21 cm Measurements"

E. Woodfield: "Foreground Removal using ICA"

10:30 - 11:00 coffee break

11:00 - 12:30 **Foreground removal techniques (II)**

F. Sureau: "Including Foreground models in the GMCA component separation approach"

S. Ricciardi: "Correlated Component Analysis: a component separation tool for diffuse emissions"

H. Vedantham: "Effect of the three dimensional point spread function on the statistical detection of EoR"

Y. Fantaye: "Estimating the tensor-to-scalar ratio in the presence of diffuse foreground contamination"

12:30 - 14:30 lunch break

14:30 - 16:00 **Observational strategy and early results (I)**

M. Brentjens: LOFAR-EoR (IT)
P. Labropoulos: "Observing the 3C 196 field with LOFAR"
F. Briggs: MWA (IT)
G. Bernardi: "Selected (shallow and deep) observations with the Murchison Wide-field Array"

16:00 - 16:30 coffee break

16:30 - 18:05 **Observational strategy and early results (II)**

T.-Z. Chang : GMRT-EoR (IT)
J. Bowman: EDGES (IT)
T. Pearson: C-BASS (IT)
C. Yuji: QUIET

Friday (May 27)

09:00 - 10:30 **Instrumental effects & Ionosphere (II)**

S. Yatawatta: "Unique solutions in LOFAR calibration"
S. Kazemi: "Clustered Radio Interferometric Calibration"
O. Smirnov: "The Good, The Bad & The Ugly: Subtracting foregrounds in the presence of DDEs"
J.E. Noordam: "Lowering the threshold"

10:30 - 11:00 coffee break

11:00 - 12:30 **Closing session**

Future cosmological instruments (60min discussion)
Summary of the conference: Ue-Li Pen (30 min)