

21cm Paris Intensity Mapping Workshop

Paris Observatory, 77 avenue Denfert-Rochereau, 75014 Paris

salle de l'atelier, 3 and 4 June 2014

<http://21cmparisim.obspm.fr/>

<https://indico.lal.in2p3.fr/conferenceDisplay.py?ovw=True&confId=2447>

Agenda

Tuesday Morning (1) - 9:30 - 10:45 (chair: R. Ansari)

Introduction (5')

Réza Ansari (Univ. Paris-Sud, LAL-CNRS/IN2P3)

Modification of Gravity (35')

Christos Charmoussis (LPT, Orsay, France)

BAO : results from BOSS and eBOSS, prospects from DESI (35')

Jean-Marc Le Goff (CEA/IRFU, Saclay, France)

Coffee break 10:45 - 11:15

Tuesday Morning (2) - 11:15 - 13:00 (chair: J.M. Martin)

The Intensity mapping method, sensitivity forecasts (35')

Mario Santos (Lisbon University, Portugal)

Signal and Foreground separation in intensity mapping (35')

Albert Stebbins (Fermilab, Batavia, USA)

Bayesian analysis approaches of radio interferometric data (20')

Benjamin Wandelt (IAP, Paris, France)

Lunch break

Tuesday Afternoon (3) - 14:10 - 15:20 (chair: A. Stebbins)

LOFAR status and observations (35')

Saleem Zaroubi (University of Groningen, Netherlands)

Status of GBT and Parkes HI intensity mapping programs (35')

Peter Timbie (Univ. of Wisconsin, Madison, USA)

Coffee break 15:20 - 15:40

Tuesday Afternoon (4) - 15:40 - 17:00 (chair: X. Chen)

EOR signal observation through its spectral signature (20')

Jeff Peterson (Carnegie Mellon University, Pittsburgh, USA)

Wide band HI observations with the Nançay radio telescope (20')

Jean-Eric Campagne (LAL, Orsay, France)

Sub-grid modeling of EoR physics (20')

Andrei Mesinger (Scuola Normale Superiore, Pisa, Italy)

F2Ray: simulating the cosmic reionization more efficiently and more robustly (20')

Yi Mao (IAP, Paris, France)

Wednesday Morning (5) - 9:30 - 11:20 (chair: P. Timbie)

BINGO (30')

Ian Brown (Manchester University, UK)

CHIME (30')

Jeff Peterson (Carnegie Mellon University, Pittsburgh, USA)

TIANLAI (30')

Xuelei Chen (NAOC, Beijing, China)

The PAON project (20')

Jean-Michel Martin (Observatoire de Paris, Meudon, France)

Coffee break 11:20 - 11:45

Wednesday Morning (6) - 11:45 - 12:45 (chair: J.E. Campagne)

Bingo Simulations and data processing (20')

Marie Anne Bigot Sazy (Univ. of Manchester, UK)

Sky map reconstruction from Transit interferometers (20')

Jiao Zhang (LAL, Orsay, France - NAOC, Beijing, China)

Tianlai correlator design (20')

Jie Hao (Institute of Automation, Beijing, China)

Lunch break

Wednesday afternoon (7) - 14:10 - 15:00 (chair: J. Peterson)

EOR signal simulations (30')

Benoit Semelin (Observatoire de Paris, France)

Detectable signature of first stars in 21 cm signal (20')

Anastasia Fialkov (ENS, Paris, France)

Coffee break 15:00 - 15:20

Wednesday afternoon (7) - 15:20 - 16:20 (chair: C. Magneville)

Towards the Square Kilometer Array (30')

Jeff Wagg (SKA office, Jodrell Bank, UK)

Aperture arrays for SKA (30')

Steve Torchinsky (Observatoire de Paris, Nançay, France)

Closing drink 16:30