

ICIC Inaugural Workshop
20-21 August 2012, Imperial College London
Clore Lecture Theatre, Huxley Building

Monday, 20 August

08.00 - 09.15 **Breakfast** (Blackett Concourse, Level 3)

Morning Session

Chair: Roberto Trotta

09.15 - 10.30 **Discussion Topic: *Statistical Challenges in Dark Energy Searches***
Ofer Lahav, University College London

10.30 - 10.45 **Snapshot: *Sparsity and Compressed Sensing in 3D Weak Lensing***
Adrienne Leonard, CEA Saclay

10.45 - 11.15 **Coffee Break** (Blackett Concourse, Level 3)

11.15 - 12.30 **Discussion Topic: *Hierarchical Bayesian Models for Type Ia Supernova Light Curves, Spectra, Dust and Distances***
Kaisey Mandel, Imperial College London

12.30 - 14.15 **Lunch**

Afternoon Session

Chair: Alan Heavens

14.15 - 15.30 **Discussion Topic: *New Approaches to Cosmological Inference from Probes of the Large Scale Structure of the Universe***
Ben Wandelt, IAP, Sorbonne University

15.30 - 15.45 **Snapshot: *Functional Marginalisation for Cosmology***
Tom Kitching, University of Edinburgh

15.45 - 16.15 **Cold Drinks** (Blackett Concourse, Level 3)

16.15 - 17.30 **Discussion Topic: *Global Fits Beyond the Standard Model with Astroparticle Data***
Pat Scott, McGill University

19.15 - 21.30 **Dinner: *Zaika***,
1 Kensington High St. London W8 5NP (see walking directions)

Tuesday, 21 August

08.00 - 09.15 **Breakfast** (Blackett Concourse, Level 3)

Morning Session

Chair: David van Dyk

09.15 - 10.30 **Discussion Topic: *I Have More Data, My Model is More Refined, but my Estimator is Getting Worse! Am I Just Dumb?***

Xiao-Li Meng, Harvard University

10.30 - 10.45 **Snapshot: *Accelerating MCMC by Interweaving Multiple Parameterisations***

Yaming Yu, University of California, Irvine

10.45 - 11.15 **Coffee Break** (Blackett Concourse, Level 3)

11.15 - 12.30 **Discussion Topic: *Probabilistic Source Detection***

Farhan Feroz, University of Cambridge

12.30 - 14.15 **Lunch**

Afternoon Session

Chair: Daniel Mortlock

14.15 - 15.30 **Discussion Topic: *Analyzing Astronomical Data Sets Using Non-linear Random Effects Models***

Brandon Kelly, University of California, Santa Barbra

15.30 - 15.45 **Snapshot: *Bayesian Estimation of Flux Distributions***

Paul Baines, University of California, Davis

15.45 - 16.15 **Cold Drinks** (Blackett Concourse, Level 3)

16.15 - 17.30 **Discussion Topic: *Bayesian Multilevel Modelling of Cosmic Populations***

Tom Loredo, Cornell University