

Interdisciplinary Workshop on Statistical and Analysis Methods in Nuclear, Particle and Astrophysics

2014 Nov 3-5 at ECT* in Villazzano, Italy

Last update: 7 Oct 2014, A. Müller

MONDAY, 2014 Nov 3

start end event

11:00 14:00 REGISTRATION

0 14:00 14:05 **SOC**
WELCOME

Introductory Lectures

1 14:05 14:40 **F. Guglielmetti**
Motivation

2 14:40 15:15 **F. Guglielmetti**
Probabilty theory

15:15 15:45 Coffee break

3 15:45 16:20 **F. Guglielmetti**
Bayesian methods

4 16:20 16:55 **F. Guglielmetti**
Frequentist methods

5 16:55 17:30 DISCUSSION

19:30 Dinner

TUESDAY, 2014 Nov 4

start end event

Astronomy & cosmology

16 09:00 09:35 **F. Guglielmetti**
Bayesian methods, not only for astronomical images

17 09:35 10:10 **J. Jasche**
4D Bayesian inference with LSS surveys

18 10:10 10:45 **B. Wandelt**
Statistical Methods in Cosmology

10:45 11:15 Coffee break

19 11:15 12:15 **n.n.**
STUDENTS, WRAP-UP

12:15 14:00 Lunch

Particle physics

10 14:00 14:35 **K. Cranmer**
Frequentist methods and the Higgs particle (tbc)

11 14:35 15:10 **M. Betancourt**
Stan: A Platform for Efficient Bayesian Inference

12 15:10 15:45 **B. Kegl**
Multivariate analysis techniques (tbc)

15:45 16:15 Coffee break

13 16:15 16:50 **S. Biller**
The Confidence Game

14 16:50 17:50 **n.n.**
STUDENTS

15 17:50 18:00 DISCUSSION

19:30 Dinner

WEDNESDAY, 2014 Nov 5

start end event

Astroparticle physics

16 09:00 09:35 **F. Beaujean**
Variational Bayes: a versatile workhorse

17 09:35 10:10 **F. Pröbst**
CRESST experiment and analysis

18 10:10 10:45 **C. Arina**
Bayesian analysis of direct dark matter detection experi.

10:45 11:15 Coffee break

19 11:15 12:15 **n.n.**
STUDENTS, WRAP-UP

12:15 14:00 Lunch

Weblinks:

www.universe-cluster.de/trento2014
www.ectstar.eu/node/781