

## **CANTATA Summer School 4-15/09/2017**

### **Lectures, Workshops, Lecturers and Trainers**

<b><u>L1</u></b>	History of the Universe: the physics of the FLRW background (Jens Chluba, University of Manchester, UK)
<b><u>L2</u></b>	Cosmological perturbation theory and the CMB (Ingunn Kathrine Wehus, University of Oslo, Norway)
<b><u>L3</u></b>	Dark Energy and Modified Gravity (Martin Kunz, University of Geneva, Switzerland)
<b><u>L4</u></b>	Observational probes (Carmelita Carbone, INAF-Osservatorio Astronomico di Brera and University of Milan, Italy)
<b><u>L5</u></b>	Statistics and model selection in cosmology (Signe Riemer-Sørensen, University of Oslo, Norway)
<b><u>L6</u></b>	Nonlinearity in cosmology (Kazuya Koyama, University of Portsmouth, UK)
<b><u>CAMBWorkshop</u></b>	<u>CAMB, EFTCAMB, COSMOMC and parameter estimation. Matteo Martinelli, with support from Simone Peirone (University of Leiden, The Netherlands)</u>
<b><u>CLASSWorkshop</u></b>	<u>CLASS, HI CLASS, MontePython for parameter extraction and Bayesian inference. Thomas Tram (AARHUS University, Denmark) with support from Miguel Zumalacarregui (NORDITA, Sweden)</u>

<b>TIME</b>	<b>MON. 4/9</b>	<b>TUE. 5/9</b>	<b>WED. 6/9</b>	<b>THU. 7/9</b>	<b>FRI. 8/9</b>	<b>SAT. 9/9</b>	<b>SUN. 10/9</b>	<b>MON 11/9</b>	<b>TUE. 12/9</b>	<b>WED. 13/9</b>	<b>THU. 14/9</b>	<b>FRI. 15/9</b>	
8:00-9:00											<b>EXCURSION</b>		
9:00-11:00	<b>Registration starts at 10:00</b>	L1 Chluba	L1 Chluba	L3 Kunz	L3 Kunz	Mariateresa Crosta et al: Gender Balance activity	L4 Carbone	L4 Carbone	L5 Riemer - Sørensen	L6 Koyama		OPTIONAL: Seminars	
11:00-11:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		Coffee Break	Coffee Break
11:30-13:30		L1 Chluba	L1 Chluba	L3 Kunz	L4 Carbone	Crosta et al: Gender Balance activity	L5 Riemer - Sørensen	L5 Riemer - Sørensen	L6 Koyama	L6 Koyama		Final Discussion	
13:30-4:00		Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break		Lunch Break	Lunch Break
4:00-5:45		L2 Wehus	L2 Wehus	CAMB Workshop: Martinelli	CAMB Workshop: Martinelli	Free afternoon/ LOC organized visits/activity	CAMB Workshop: Martinelli	CLASS Workshop: Tram	CLASS Workshop: Tram	CLASS Workshop: Tram		CLASS Workshop: Tram	Departure
5:45-6:00		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		Coffee Break	
6:00-8:00		L2 Wehus	L2 Wehus	CAMB Workshop: Martinelli	CAMB Workshop: Martinelli		CAMB Workshop: Martinelli	CLASS Workshop: Tram	CLASS Workshop: Tram	CLASS Workshop: Tram		CLASS Workshop: Tram	