

# **3rd Cosmology School**

## *Introduction to cosmology*

### **PROGRAM**

#### **09.07.2017 Sunday**

16:00 – 19:00 Registration (Building A, st. S. Łojasiewicza 11)

#### **10.07.2017 Monday**

09:00 – 09:30 Opening Ceremony

09:30 – 11:00 Guido Chincarini: “Cosmological parameters”

11:00 – 11:30 Coffee break

11:30 – 13:00 Leszek Sokołowski: “Conceptual issues in cosmology: inflationary paradigm and horizons”

13:00 – 14:30 Lunch break

14:30 – 16:00 Gianfranco de Zotti: “Galaxy-AGN co-evolution”

16:00 – 17:00 Participants’ session I

18:00 Welcome grill

#### **11.07.2017 Tuesday**

09:30 – 11:00 Leszek Sokołowski: “Conceptual issues in cosmology: inflationary paradigm and horizons”

11:00 – 11:30 Coffee break

11:30 – 13:00 Gianfranco de Zotti: “Prospects for next generation CMB experiments”

13:00 – 14:30 Lunch break

14:30 – 16:00 Guido Chincarini: “Cosmological parameters”

16:00 – 16:30 Coffee break

16:30 – 18:00 Maciej Bilicki: “Cosmological surveys”

#### **12.07.2017 Wednesday**

09:30 – 11:00 Maciej Bilicki: “Cosmological surveys”

11:00 – 11:30 Coffee break

11:30 – 13:00 Wojciech Hellwing, Maciej Cytowski: “Cosmological simulations – lectures & workshop”

13:00 – 14:30 Lunch break

14:30 – 16:00 Wojciech Hellwing, Maciej Cytowski: “Cosmological simulations – lectures & workshop”

16:00 – 16:30 Coffee break

16:30 – 18:00 Wojciech Hellwing, Maciej Cytowski: “Cosmological simulations – lectures & workshop”

#### **13.07.2017 Thursday**

09:30 – 11:00 Wojciech Hellwing, Maciej Cytowski: “Cosmological simulations – lectures & workshop”

11:00 – 11:30 Coffee break

11:30 – 13:00 Wojciech Hellwing, Maciej Cytowski: “Cosmological simulations – lectures & workshop”

13:00 – 14:30 Lunch break

14:30 – 16:00 Wojciech Hellwing, Maciej Cytowski: “Cosmological simulations – lectures & workshop”

16:00 – 16:30 Coffee break

16:30 – 18:00 Wojciech Hellwing, Maciej Cytowski: “Cosmological simulations – lectures & workshop”

14.07.2017 Friday

09:30 – 11:00 Boud Roukema: ”Steps towards relativistic cosmology”

11:00 – 11:30 Coffee break

11:30 – 13:00 Gianfranco de Zotti: “Astrophysics of star formation across cosmic time with the Square Kilometre Array”

13:00 – 14:30 Lunch break

14:30 – 16:00 Marek Biesiada: “Cosmology with Gravitational Waves”

16:00 – 16:30 Coffee break

16:30 – 18:00 Marek Biesiada: “Cosmology with Gravitational Waves”

## **15.07.2017 Saturday**

09:30 – 11:00 Hendrik Heintz / Jenny Sorce: “Introduction into VO tools”

11:00 – 11:30 Coffee break

11:30 – 13:00 Hendrik Heintz / Jenny Sorce: “TOPCAT and Aladin with exercises:

- Explore the Pleiades with TOPCAT
- Abell 1656: the Coma Cluster of Galaxies“

13:00 – 14:30 Lunch break

14:30 – 16:00 Hendrik Heintz / Jenny Sorce: “Introduction to ADQL: ADQL Course”

16:00 – 16:30 Coffee break

16:30 – 18:00 Hendrik Heintz / Jenny Sorce: “Introduction to ADQL continued”

## **16.07.2017 Sunday**

09:30 – 11:00 Hendrik Heintz / Jenny Sorce: “Data Discovery: the CDS tutorial”

11:00 – 11:30 Coffee break

11:30 – 13:00 Hendrik Heintz / Jenny Sorce: “ADQL Use Cases”

13:00 – 14:00 Lunch break

14:30 – 16:00 Hendrik Heintz / Jenny Sorce: “ADQL Use Cases continued”

17:00 – 18:00 Andrzej Staruszkiewicz: Public lecture - "Dlaczego nie można zmienić przeszłości?"

## **17.07.2017 Monday**

09:30 – 11:00 Elena Panko: “Galaxy Clusters and their Components“

11:00 – 11:30 Coffee break

11:30 – 13:00 Bohdan Novosyadlyj: “Dark energy at cosmological and astrophysical scales:

theoretical models and observational tests”  
13:00 – 14:30 Lunch break  
14:30 – 16:00 Rien van der Weijgaert: “Cosmic Web”  
16:00 – 16:30 Coffee break  
16:30 – 18:00 Participants’ session I

### **18.07.2017 Tuesday**

09:30 – 11:00 Guido Chincarini: “Cosmological parameters”  
11:00 – 11:30 Coffee break  
11:30 – 13:00 Rien van de Weijgaert: “Cosmic Web”  
13:00 – 14:30 Lunch break  
14:30 – 16:00 Bohdan Novosyadlyj: “Dark energy at cosmological and astrophysical scales: theoretical models and observational tests”  
16:00 – 16:30 Coffee break  
16:30 – 18:00 Vicent J. Martínez: “Baryonic Acoustic Oscillations”

### **19.07.2017 Wednesday**

09:30 – 11:00 Rien van de Weijgaert: “Cosmic Web”  
11:00 – 11:30 Coffee break  
11:30 – 13:00 Samuel Boissier: “Galactic chemical evolution”  
13:00 – 14:00 Lunch break  
Excursion + conference dinner

### **20.07.2017 Thursday**

09:30 – 11:00 Veronique Buat: “The whole Energy Distributions of galaxies: observations of the different components”  
11:00 – 11:30 Coffee break  
11:30 – 13:00 Denis Burgarella: “How stars form now and in the early universe”  
13:00 – 14:30 Lunch break  
14:30 – 16:00 Denis Burgarella, Katarzyna Małek, Veronique Buat: workshop “SED fitting”  
16:00 – 16:30 Coffee break  
16:30 – 18:00 Denis Burgarella, Katarzyna Małek, Veronique Buat: workshop “SED fitting”

### **21.07.2017 Friday**

09:30 – 11:00 Veronique Buat: “Linking stellar and dust emission: physical processes and related parameters, SFR and stellar masses”  
11:00 – 11:30 Coffee break  
11:30 – 13:00 Denis Burgarella: “The emission of galaxies on the whole electromagnetic spectrum; with an analysis of the whole SED, the various component”  
13:00 – 14:30 Lunch break  
14:30 – 16:00 Denis Burgarella, Katarzyna Małek, Veronique Buat: workshop “SED fitting”  
16:00 – 16:30 Coffee break  
16:30 – 18:00 Denis Burgarella, Katarzyna Małek, Veronique Buat: workshop “SED fitting”

**22.07.2017 Saturday**

09:30 – 11:00 Tsutomu T. Takeuchi: “Galaxy Evolution”

11:00 – 11:30 Coffee break

11:30 – 13:00 Samuel Boissier: “Star formation laws”

13:00 – 14:30 Lunch break

14:30 – 16:00 Tsutomu T. Takeuchi: “Galaxy Evolution”

16:00 – 16:30 Coffee break

16:30 – 18:00 Samuel Boissier: “Outskirts of galaxies”

**23.07.2017 Sunday**

09:30 – 11:00 Participants’ session I