

Astronomical observations at optical and IR wavelengths –  
ESO/OPTICON/IAU summer school on modern european instrumentation, their science case, and  
practical data reduction

## **Preliminary Program**

### **Monday 31 August**

Arrival of participants, registration, diner 19:30

### **Tuesday 01 September**

09:00-10:00 Opening Ceremony and Introduction, practical information for students  
10:00-10:30 History of ESO and CZ membership: J. Palous (CZ Academy of Sciences)  
10:30-11:00 COFFEE  
11:00-12:30 SCIENCE HIGHLIGHTS: B. Leibundgut (ESO), Supernovae and cosmology  
  
14:00-15:30 SCIENCE HIGHLIGHTS: D. Gadotti (ESO), Galaxies  
15:30-16:00 COFFEE  
16:00-17:30 OBSERVATORIES/INSTRUMENTATION: I. Saviane (ESO), ESO-LaSilla  
17:30-18:30 Short presentation of each student  
19:00 cocktail + diner (at the Hotel Campea)

### **Wednesday 02 September**

09:00-10:30 METHODS: Spectroscopy, S. Vennes, (CZ Academy of Sciences)  
10:30-11:00 COFFEE  
11:00-12:30 OBSERVATORIES/INSTRUMENTATION: B. Leibundgut (ESO), ESO Paranal VLT  
  
14:00-15:00 PROPOSALS: M. Dennefeld (IAP), How to write a proposal  
15:00-16:00 PROPOSALS: E. Paunzen (MU), tutors, ESO OPC experience, expl. of OPC exercise  
16:00-16:30 COFFEE  
16:30-17:30 OBSERVATORIES/INSTRUMENTATION: M. Dennefeld (IAP), OPTICON facilities  
17:30-18:30 PROJECT GROUPS: Intro and assignments, short presentations of tutors

### **Thursday 03 September**

09:00-10:30 SCIENCE HIGHLIGHTS: M. Lehnert (IAP), Cosmology and evolution of galaxies  
10:30-11:00 COFFEE  
11:00-12:30 METHODS: Photometry, G. Handler (Warsaw)  
  
14:00-15:30 SCIENCE HIGHLIGHTS: The hot and energetic universe, N. Werner (U. of Stanford)  
15:30-16:00 COFFEE  
16:30-18:00 OBSERVATORIES/INSTRUMENTATION: The LaPalma facilities, D. Jones (IAC)

### **Friday 04 September**

09:00-10:30 METHODS: Spectropolarimetry, and Pic du Midi Observatory, R. Cabanac (Toulouse)  
10:30-11:00 COFFEE  
11:00-12:30 OBSERVATORIES: ESO archives and data retrieval, M. Neeser (ESO)  
  
14:00-16:00 PROJECTS  
16:00-16:30 COFFEE  
16:30-18:30 PROJECTS

### **Saturday 05 September**

09:00-10:30 SCIENCE HIGHLIGHTS: J. Krticka (MU), Theoretical astronomy: Stars Atmospheres

10:30-11:00 COFFEE

11:00-12:30 SCIENCE HIGHLIGHTS: AGNs, M. Ward (Durham)

14:00-15:00 OBSERVATORIES/INSTRUMENTATION: CAHA observatory, G. Bergond (CAHA)

15:00-17:00 PROJECTS

17:00--- Free time

### **Sunday 06 September**

EXCURSION (lunch outside)

### **Monday 07 September**

09:00-10:30 SCIENCE HIGHLIGHTS: Exoplanets, S. Csizmadia (Berlin)

10:30-11:00 COFFEE

11:00-12:30 SCIENCE HIGHLIGHTS: Black Holes, and Magnetic Fields, V. Karas (CAS-CZ)

14:00-15:30 PROJECTS

15:30-16:00 COFFEE

16:00-17:00 INSTRUMENTS: Detectors (Moravia Instruments)

17:00-17:30 INSTRUMENTS: Projectsoft – robotisation of La Silla Danish

### **Tuesday 08 September**

09:00-10:30 SCIENCE HIGHLIGHTS: The ISM and quasar absorption lines, P. Noterdaeme (IAP)

10:30-11:00 COFFEE

11:00-12:30 OBSERVATORIES: E. Semenko (Moscow), The Russian facilities

14:00-15:30 PROJECTS

15:30-16:00 COFFEE

16:00-18:30 PROJECTS

### **Wednesday 09 September**

09:00-10:30 PROPOSALS: OPC EXERCISE I (presentation/discussion)

10:30-11:00 COFFEE

11:00-12:30 PROPOSALS: OPC EXERCISE II (results and feedback)

14:00-15:30 PROJECTS

15:30-16:00 COFFEE

16:00-18:30 PROJECTS

### **Thursday 10 September**

09:00-10:30 Preparation of PROJECT PRESENTATIONS

10:30-11:00 COFFEE

11:00-12:30 CAREER PROSPECTS – Panel Discussion

14:00-15:30 FUTURE OBSERVATORIES, and FACILITIES: S. Ramsay (ESO)

15:30-16:00 COFFEE

16:00-18:30 Preparation of PROJECT PRESENTATIONS

**Friday 11 September**

09:00-10:30 Intro and PROJECT PRESENTATIONS

10:30-11:00 COFFEE

11:00-12:30 PROJECT PRESENTATIONS

14:00-15:30 PROJECT PRESENTATIONS

15:30-16:00 COFFEE

16:00-17:30 PROJECT PRESENTATIONS

17:30-18:30 FEEDBACK, DISCUSSION, CLOSING SESSION

20:00 Closing diner