

OSIRIS Workshop Preliminary Program

Lecturers: J. Cepa, E. Alfaro, A. Bongiovanni, A. Ederoclite, I. González-Serrano, A. Pérez García, M. Sánchez-Portal

Monday 16

Morning

OSIRIS instrument

09:00 OSIRIS Characteristics and status (J. Cepa)

Preparing proposals

09:30 Phase I: writing your proposal. Exposure Time Calculators (I. González-Serrano)

09:45 Phase II: once accepted. General introduction to OSIRIS OPMS (A. Ederoclite)

Data reduction

10:15 OSIRIS on-line and off-line pipelines (A. Ederoclite)

11:00 Coffee Break

MOS: Observing strategies and practical advice

11:30 Mask designer tool (M. Sánchez-Portal)

12:00 MOS shuffle and wavelength sorting modes (M. Sánchez-Portal)

12:30 Relative flux calibration. Differential refraction. Slit errors (I. González-Serrano)

13:00 Lunch

Afternoon

OPMS and MOS data reduction tutorial

15:00 MOS OPMS tutorial (A. Ederoclite)

16:00 MOS Data reduction tutorial

- Step-by-step: flatfield, distortion correction, wavelength calibration, object
- extraction
- Pipeline description

- Data analysis tools

19:00 End

Tuesday 17

Morning

Tunable Filters: Observing strategies and practical advice

09:00 Tunable filter basics

09:30 Choosing the most appropriate mode (J. Cepa)

10:00 TF setup and sky lines (I. González-Serrano)

10:15 Coffe Break

10:45 Observational strategy (J. Cepa)

- Photometric accuracy. Spectral response, deblending lines
- Ghost removal
- Techniques for observing extended objects. Wavelength variation across
- FOV
- Removing sky rings
- Examples and exercises

11:45 TF OPMS tutorial (A. Ederoclite)

13:00 Lunch

Afternoon

15:00 TF data reduction tutorial

- Image preparation (including wavelength calibration, sky ring removal, etc)
- Pipeline description
- Flux calibration

19:00 End

WORKSHOP DETAILS

Tutorial structure

1. Theoretical explanations and examples, plus hands on application of the scientific program of the choice of each user.
2. The hands-on applications will be supervised by four lecturers.

Hardware & Software required

1. Laptop running Linux with IRAF 2.12, DS9 and xgterm installed
2. WIFI

Software provided (using a DVD)

1. Mask designer plus associated packages
2. TFred (IRAF package)
3. TF and MOS data for the tutorial
4. Intermediate data reduction steps and examples
5. Complementary documentation