

Final Program

Time	Monday 28 Nov	Tuesday 29 Nov	Wed. 30 Nov	Thursday 1 Dec.	Friday 2 Dec.	Saturday 3 Dec.
08:30- 10:00	Opening Ceremony and Keynote Speech Benkhaldoun/ Raid	Introduction to Cosmology P.G. Fereira	(9h- 10h) Atmospheric Optics A. Ziad	Incursions in High Energy Astrophysics J. Mimouni (1h) Gamma Universe N. Guessoum (45mn)	Incursions in High Energy Astrophysics J. Mimouni	Oukaimeden Observatory Visit
10:00 – 10:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break (10h15)	Coffee Break	
10:15 – 11:15	Theoretical Spectroscopy K. Chance	Theoretical Spectroscopy K. Chance	Adaptive Optics J. M. Conan	Gamma Universe N. Guessoum	Extragalactic Astronomy I. Moumen	
11:15 – 12:45	Theoretical Spectroscopy K. Chance	Standard Model and Beyond at LHC M. Chabab	Exoplanets A. Szentgyorgyi	Solar Physics R. Suleiman	Solar Physics N. Vilmer	
12:45 - 14:15	Break & Lunch	Break & Lunch	Break & Lunch	Break & Lunch	Break & Lunch	
14:15 – 15:45	Introduction to Galactic Astronomy R. As'ad	Galactic star clusters R. As'ad	Free for All & ArAs General Assembly for those concerned	Earth and Planetary Atmospheres R. Suleiman	Writing a Scientific Paper R. Suleiman	
15:45 – 16:00	Coffee Break	Coffee Break		Coffee Break	Coffee Break	
16:00 – 17:00	IRAF & Python A. Daassou & M. Kaab	Image Processing, Photometry & Astrometry A. Daassou & Z. Benkhaldoun		Exoplanets R. Ferlet	Research in Astrophysics N. Guessoum	
17:00 – 18:00	IDL I. Moumen & K. Malki	CCD Imaging: Spectroscopy A. Benhida & F. Sefyani		Meteoritic and Impact cratering H. Chennaoui	Remote Observatories T. De France & A Benhida	
18:30 – 20:30	Public Conference Arab and Islamic Astronomy Heritage Z. A. AL- Houssaini	Public Conference Light Pollution and Dark Sky Reserve M. Aubé	Official Diner	Cancelled	Public Conference Science at the Arab Universities N. Guessoum	

Subject matters covered and Speakers:

General Lectures:

- > Introduction to Reasearch in Astrophysics (**Zouhair Benkhaldoun**)
- > Introduction to Cosmology (**Pedro G. Ferreira**)
- > Standard Model and Beyond (**Mohamed Chabab**)
- > High Energy Astrophysics (**Jamal Mimouni**)
- > Theoretical Spectroscopy (**Kelly Chance**)
- > Galactic Astronomy (**Randa Assad**)
- > Extragalactic Astronomy (**Ismaël Moumen**)
- > Solar Physics (**Nicole Vilmer & Raid Suleiman**)
- > Space Physics (**Suleiman Baraka**)
- > Earth and Planetary Atmospheres (**Kelly Chance & Raid Suleiman**)
- > Exoplanets (**Andy Szentgyorgyi & Roger Ferlet**)
- > Meteoritics and Impact cratering (**Hasnaa Chennaoui**)
- > Optical & Infrared Astronomy (**Aziz Ziad**)
- > Gamma Universe (**Nidhal Guessoum**)

Tools:

- > Image Processing (**Zouhair Benkhaldoun**)
- > CCD Imaging, Photometry, and Astrometry (**K. Barkaoui & Ahmed Daassou**)
- > CCD Imaging Spectroscopy (**Abdelmajid Benhida & Fouad Sefyani**)
- > IRAF, IDL, Python (**Ismael Moumen, Ahmed Daassou & Mohamed Kaab**)
- > Writing a Scientific Paper
- > Virtual Observatories (**Abdelmajid Benhid & Thibault de France**)

Public Conferences:

- > Science at the Universities of the Arabic World (**Nidhal Guessoum**)
- > **KACCOLR Project for Crescent Observation (Yaseen Al Malekeay) (cancelled)**
- > Light Pollution and Dark Sky Reserve (**Martin Aubé**)
- > Arab and Islamic Astronomy Heritage (**Taj Eddine Houssaini**)

Scientific Organizing Committee:

Zouhair Benkhaldoun : Oukaimeden Observatory, Cadi Ayyad University, **Morocco**
Raid Suleiman : Harvard-Smithsonian Center for Astrophysics, **USA**
Randa Asa'd : American University of Sharjah, **UAE**
Ismaël Moumen : Université Laval / Canada-France-Hawaii Telescope, **Canada**
Suleiman Baraka : UNESCO chair-holder in Astronomy, **Palestine**.
Hassan Darhmaoui : Al-Akhawyn University, **Morocco**
Youssef El Azhari : Moroccan National Centre of Pedagogical Innovation, **Morocco**