



CENTRE DE RECHERCHE EN ASTRONOMIE, ASTROPHYSIQUE ET  
GEOPHYSIQUE

مركز البحث في علم الفلك و الفيزياء الفلكية و  
الجيوفيزياء



## Conference Program Talks

### **26 March 2017: Arrival, welcoming of the participants and registration**

16H00 - 18H30 : Welcoming the participants and registration  
(At the University)

18H30 : Departure for the Hotels

20H00 : Diner at the Hotel

### **27 March 2017: First Day**

#### **Opening Ceremony, Conferences, Poster Session**

08H00 - 08H30: Registration of the participants. (Auditorium)

08H30 - 09H30: Opening Ceremony (Interventions of Mr le Wali, Mr the Director of Scientific Research (DGRSDT), Mr the General Secretary of the International Astronomical Union (IAU), Mr the Director of the CRAAG, Mr the Rector of the University)

#### **Session 1: Session Chair (J. Mimouni, Mentouri, Constantine)**

09H30 - 10H00: The National Aures Observatory Project: An Overview  
**N. Seghouani, CRAAG, Algeria**

10H30 - 11H00: Earthquakes in the Cosmos  
**P. Benvenuti, IAU, Italy**

11H00 - 11H30: Coffee break

11H30 - 12H00: The Virgo Gravitational Antenna  
**M. Boer, CNRS-ARTEMIS, France**

12H00 - 12H30: Oukaimaden Observatory:  
From Site Survey to Recent Discoveries  
**Z. Benkhaldoun, Oukaimeden Observatory, Morocco**

12H30 - 14H00: Lunch break

## **Session 2: Session Chair (N. Bouzid, University of Khenchela)**

- 14H00 – 14H30: From Exoplanets to Exocomets  
**R. Ferlet**
- 14H30 - 15H00: The processing of spectroscopic binaries within the reduction pipeline of Gaia data  
**Y. Damerdji, CRAAG, Algeria**
- 15H00 – 15H20: Observation Scheduler for the future robotic meta-telescope of the National Aures Observatory  
**Y.A. Bekhti, CRAAG, Algeria**
- 15H20 - 15H40: Physical Chemistry of Comets Nucleus  
**N. Bouziani, CRAAG, Algeria**
- 15H40 – 16H00: Geophysical signature of meteorite impact craters: a case study of Maadna crater (Talemzane, Algeria)  
**A. Lamali, CRAAG, Algeria**
- 16H00 - 16H40: Coffee break + Poster Session

## **Session 3A: Session Chair (R. Attallah, University of Annaba)**

- 16H40 - 17H00: New Aspects of Gravitational Waves Beyond Einstein's Theory of General Relativity  
**N. Mebarki, Mentouri University, LPMPS, Algeria**
- 17H00 - 17H20: Hawking Radiation near the trapping horizon of black holes in Lyra geometry.  
**H. Bouhalouf, University of Constantine, Algeria**
- 17H20 – 17H40: Reverberation in a narrow relativistic line Seyfert galaxy.  
**S. Kali, University of Msila, Algeria**
- 17H40 – 18H00: Hidden Kerr/CFT  
**I. Messameh, University of Batna, Algeria**

## **Session 3B : Session Chair (A. Sid, University of Batna)**

- 16H40 - 17H00: The horizon problem  
**B. Si Lakhal, ENP, Algeria**
- 17H00 - 17H20: R-process  $^{130}\text{Cd}$  Waiting Point  
**N. Laouet, University of Constantine, Algeria**
- 17H20 – 17H40: Unified model of Dark matter and Dark energy (chaplygin gas)  
**A. Zaidi, University of Bejaia, Algeria**
- 17H40 – 18H00: The Extended Tolman-Oppenheimer-Volkoff equation and applications  
**H. Mansour, University of Blida, Algeria**
- 18H30 – 22H00: Conference Diner and return to the Hotel

## **28 Mars 2017: Second Day**

### **Conferences, Posters, Closing Ceremony**

#### **Session 4: Session Chair (Y. Damerджи, CRAAG)**

- 08H30 - 09H00: BINGO: The new 21 cm window  
for exploring the Dark Universe  
**C.A. Wuensche**, *INPE, Brazil*
- 09H00 - 09H30: Multiwavelength GRB observation analysis  
**A. Klotz**, *IRAP, France*
- 09H30 - 10H00: Panorama of Multi-messenger Astronomy.  
Neutrino, the Ubiquitous Messenger  
**J. Mimouni**, *Mentouri University, LPMPS, Algeria*
- 10H00 - 10H30: Extreme Mass Ratio Inspirals  
**S. Aoudia**, *University Of Bejaia*
- 10H30 - 11H00 : Coffee break

#### **Session 5: Session Chair (N. Moussaoui, USTHB)**

- 11H00 - 11H30: The Farid & Moussa Raphael Observatory  
in the multi-messenger era  
**R. Hajjar**, *NDU, Lebanon*
- 11H30 - 11H50: The Sharjah Center for Astronomy  
and Space Sciences (SCASS)  
**I. Fernini**, *University of Sharjah, UAE*
- 11H50 - 12H10: The Unification of Active Galactic Nuclei  
**I. Fernini**, *University of Sharjah, UAE*
- 12H10 - 12H30 : L'Observatoire d'Alger, un des plus grands  
du XIX<sup>o</sup> et du XX<sup>o</sup> siècle  
**P. Fuentes**, *SAF, France*
- 12H30 - 14H00 : Lunch break

#### **Session 6: Session Chair (S. Aoudia, University of Bejaia)**

- 14H00 - 14H20: On the origin of cosmic rays of extreme energy  
**R. Attallah**, *University of Annaba, Algeria*
- 14H20 - 14H40: Ultra High Energy Cosmic Rays Beyond GZK cutoff  
**M.C. Talai**, *University of Annaba, Algeria*
- 14H40 - 15H00: A propos des « Sodium LGSS » de l'E-ELT  
**N. Moussaoui**, *USTHB, Algeria*
- 15H00 - 15H20: Contribution of the water vapor radio emission to the Radio  
Astronomy Observations at Al-Uyayna observatory  
**Y. Hafez**, *KACST, Saudi Arabia*

15H20 - 15H40: Revisited: Period Variation Study of the Eclipsing Binary System IK Boo, (Case of Triple System)

**M. El Khamissy**, NRIAG, Egypt

15H40 – 16H00: On the properties of turbulence in the solar photosphere: Observations and 3D simulation

**L. Yelles**, CRAAG, Algeria

16H00 – 16H40 : Coffee break + Poster Session

**16H40 – 18H00: Table Ronde** : « Stratégie de développement de l'Astronomie & l'Astrophysique en Algérie et le futur Observatoire des Aurès »  
**(Salle de Conférence)**

**18H00 – 18H20 : Closing Ceremony**

19H00 – 22H00: Diner and return to the Hotel

**29 Mars 2017: Third Day**

**Trip and touristic visit**

08H30 : Departure for Timgad (Ancient Roman Ruins)

14H00 : Lunch at Mount Chélia

