



## Physics opportunities with a new universe's view: the SKA radio telescope

Instituto de Física Corpuscular/CSIC-UV,  
Valencia  
November 6th and 7th

### Preliminary program

*All the talks, except for those in the Poster session, are Plenary (25 min +5 min for questions)*

### Monday, November 6<sup>th</sup>

**9:30-10:00 Opening** (Olga Mena, IFIC/CSIC-UV, Spain & Vicent Martinez, Observatori Astronòmic, UV, Spain)

**10:00-11:00 SKA international (TBA)+ SKA Spain** (Lourdes Verdes-Montenegro, IAA, Spain)

**11:00-11:30 Coffee Break**

**11:30-12:30 Cradle of Life/Astrobiology:**

- 1) *"Using SKA to decipher the chemical and granulometric distribution of dust in protoplanetary disks, to be compared with the chondrite evidence"* (Josep M. Trigo, IEEC/CSIC, Spain)
- 2) *TBA* (Izaskun Jiménez Serra, UQML, UK)

**12:30-13:00 HI and Galaxy evolution Science**

- 1) *TBA* (Lourdes Verdes Montenegro, IAA, Spain)

**13:00-14:00 LUNCH**

**14:00-14:30 Short Talks Poster Session**

**14:30-15:00 CTA-SKA Synergies**

- 1) TBA (Iván Agudo, IAA, Spain)

**15:00-15:30 Cosmic Magnetism**

- 1) TBA (Kerstin Kunze, U. Salamanca, Spain)

**15:30-16:30 Extragalactic continuum**

- 1) TBA (Antxon Alberdi, IAA, Spain)
- 2) TBA (Fatemeh Tabatabaei, IAC, Spain)

**16:30-17:30 Panel Discussion** (Guillem Anglada (IAA, Spain), Asunción Fuente (OAN, IGN, Spain) & Jorge Sanchez Almeida (IAC, Spain))

**19:00 Public Talk at the Museo de las Ciencias, (Lourdes Verdes-Montenegro, IAA)**

**21:00 Workshop Dinner (TBA)**

**Tuesday, November 7<sup>th</sup>**

**09:00-09:30 Radio transients**

- 1) TBA (Miguel A. Pérez-Torres, IAA, Spain)

**09:30 -10:00** “The potential of SKA to detect the thermal emission of distant Solar System objects” (Pablo Santos-Sanz, IAA, Spain)

**10:00-11:00 21 cm Cosmology**

- 1) TBA (Matteo Viel, SISSA and INAF, INFN, Italy)
- 2) TBA (Diego Herranz, IFCA, Spain)

**11:00-11:30 Coffee Break**

**11:30-12:00 Epoch of Reionization**

(Jordi Miralda-Escudé, ICREA & IEC, UB, Spain)

**12:00-13:00 Cosmology-Particle Physics interplay**

- 1) TBA (Laura López Honorez, ULB, Belgium)
- 2) TBA (Francisco Villaescusa, Center for Computational Astrophysics, US)

**13:00-14:00 LUNCH**

**14:00-14:30 *Fundamental Physics with pulsars***

1) *TBA* (Jason Hessels, UVA, Netherlands)

**14:30-15:30 *Panel Discussion*** (Carlos Hernandez-Monteagudo (CEFA, Spain), Carlos Peña-Garay (I2SysBio/CSIC-UV and LSC, Spain), Nanda Rea (IEEC/CSIC, SPAIN) & Sergio Palomares (IFIC/CSIC-UV, Spain))