



PROGRAM

10th June

08:45 – 09:25 Registration – *Patio IAA*

Plenary Sessions – *Salón de Actos*

09:30 – 09:50 Opening words

Francisco Cuenca (Mayor of Granada)
 Inmaculada Ramos (Director General of Universities, Junta de Andalucía)
 Rafael Rodrigo (General Secretary of Scientific Policy Coordination, MICIU)

Chair: Isabel Márquez

10:00 – 10:20	The SKA Project	Phil Diamond (Director General of the SKA Organisation)
10:20 – 10:40	The Spanish participation in the SKA	Lourdes Verdes-Montenegro (Coordinator of the Spanish participation in SKA, IAA-CSIC)
10:40 – 11:00	Spanish industry involvement in SKA and prospects for construction	Javier Echávarri (Industrial Liaison Officer for ESO and SKA, CDTI)
11:00 – 11:20	The SKA Science Regional Centres	Susana Sánchez Expósito (IAA-protoSRC Technical leader, IAA-CSIC)

11:20 – 11:55 Coffee break – *Patio IAA*

Chair: Enrique Martínez-González

11:55 – 12:15	“Our Galaxy” SKA Working Group	Rainer Schödel (IAA-CSIC)
12:15 – 12:35	Cosmology and epoch of reionization with the SKA	Diego Herranz Muñoz (IFCA (CSIC-UC))
12:35 – 12:55	Star and planet formation with the SKA	Guillem Anglada (IAA-CSIC)
12:55 – 13:25	Round of questions	
	<ul style="list-style-type: none"> • Phil Diamond (Director General of the SKA Organisation) • Anna Bonaldi (SKA Project Scientist, SKAO) • Inmaculada Figueroa (Deputy Vice-Director General for Internationalisation of Science and Innovation, MICIU) • Lourdes Verdes-Montenegro (Coordinator of the Spanish participation in SKA, IAA-CSIC) 	

13:25 – 14:55 Lunch – *Patio IAA*

Chair: José Alberto Rubiño

14:55 – 15:15	Beyond science: outreach and diversity at the SKA and why it matters	Mathieu Isidro (Deputy Communications & Outreach Manager, SKAO)
15:15 – 15:35	Transient studies with the SKA and SKA-VLBI	Miguel Pérez-Torres (IAA-CSIC)
15:35 – 15:55	SKA as a machine to localize Fast Radio Bursts	Benito Marcote (Joint Institute for VLBI ERIC (JIVE))
15:55 – 16:15	Detecting cosmological magnetic fields with 21 cm line observations	Kerstin Kunze (Universidad de Salamanca)



16:15 – 16:35 Coffee break – *Patio IAA*

Chair: Luis F. Rodríguez

16:35 – 16:55	Evolution of galactic magnetic fields in HI defined interaction stages in galaxies.	Ancor Damas-Segovia (IAA-CSIC)
16:55 – 17:15	Galaxy evolution with SKA: the quest for high frequencies	Antxón Alberdi (IAA-CSIC)
17:15 – 17:35	Converting data into science: importance and challenges of data processing pipelines for SKA users	Javier Moldón (JBCA / The University of Manchester)
17:35 – 17:55	Kuiper Belt science with SKA	Pablo Santos-Sanz (IAA-CSIC)

18:00 – 19:30 (aprox.) Cocktail at Palacio de Quinta Alegre (walking distance from IAA – 5 min)



11th June

Plenary Session – *Salón de Actos*

Chair: Rebecca Azulay

09:30 – 09:50 The SKA Data Challenges Anna Bonaldi (SKA Project Scientist, SKAO)

10:00 – 11:00 **Parallel sessions**

Session 1: Our Galaxy + Planet/Star formation + Our Solar System – *Sala de Juntas Building C*

Chairs: Rainer Schoedel, Guillem Anglada

10:00 – 10:20 A deep synoptic radio survey of high-mass precursors in infrared dark clouds (G. Busquet et al)
 10:20 – 10:40 Probing the cold dust in the AB Aur disk: a dust trap in a decaying vortex? (A. Fuente et al)
 10:40 – 11:00 Radio emission at the substellar regime (J. C. Guirado et al)

Session 2: Extragalactic astronomy – *Salón de Actos*

Chairs: Miguel Sánchez-Portal, Antxón Alberdi, Lourdes Verdes-Montenegro

10:00 – 10:10 The conversion of gas into stars in nearby galaxies (Y. Ascasibar)
 10:20 – 10:30 SHARKS - Southern H-ATLAS Regions Ks-band Survey (H. Dannerbauer)
 10:30 – 10:40 SFR studies in the nearby Universe with J-PLUS and HI data (R. Logroño-García)
 10:40 – 10:50 Galaxies 3D: Sinergy between IFU, IFU-like and SKA (R. García-Benito, R. González Delgado, et al)
 10:50 – 11:00 Discussion

Session 3: Cosmology/EoR – *Sala de Juntas Building A*

Chairs: Carlos Hernández-Monteagudo, Diego Herranz Muñoz

10:00 – 10:15 The nature of progenitors of merging binary black holes (N. Bellomo)
 10:15 – 10:30 Cosmology science with SKA-VLBI (C. García Miro)
 10:30 – 11:00 Everything you wanted to know about Cosmology with the SKA (Anna Bonaldi)

11:00 – 11:30 **Coffee break – *Patio IAA***

11:30 – 12:30 **Parallel sessions (cont.)**

Session 1: Our Galaxy + Planet/Star formation + Our Solar System (cont.) – *Sala de Juntas Building C*

Chairs: Rainer Schoedel, Guillem Anglada

11:30 – 11:50 Outer protoplanetary disk chemistry inferred from an ancient cometary fragment preserved inside a meteorite (J.M. Trigo-Rodríguez)
 11:50 – 12:10 Related science with SKA-VLBI (C. García Miró)
 12:10 – 12:30 Final discussion



Session 2: Extragalactic astronomy (cont.) – *Salón de Actos*

Chairs: Miguel Sánchez-Portal, Antxón Alberdi, Lourdes Verdes-Montenegro

- 11:30 – 11:40 Looking for anomalous microwave emission in high redshift galaxies (F. Poidevin et al)
- 11:40 – 11:50 The nuclear activity and central structure of the elliptical galaxy NGC 5322 (B. Dullo et al)
- 11:50 – 12:00 The LOFAR Two-Metre Sky Survey: the most massive galaxies are always switched on (J. Sabater-Montes et al)
- 12:00 – 12:10 The ultra-low surface brightness Universe as counterpart to SKA detections (A. Borlaff & J. Román)
- 12:10 – 12:30 Discussion

Session 3: Cosmology/EoR (cont.) – *Sala de Juntas Building A*

Chairs: Carlos Hernández-Monteagudo, Diego Herranz Muñoz

- 11:30 – 12:30 Discussion

Plenary Session – *Salón de Actos*

Chair: Antxón Alberdi

12:30 – 13:30 Conclusions from the different parallel sessions and from the Workshop

- 12:30 – 13:00 Summary Session 1, 2, 3
- 13:00 – 13:20 Open discussion
- 13:20 – 12:30 Conclusions

Vicent J. Martínez (Coordinator of the RIA, AO – Univ. Valencia)
 Lourdes Verdes-Montenegro (Coordinator of the Spanish participation in SKA, IAA-CSIC)

13:30 End of the Workshop