

First National Meeting on Science and Technology with SKA The Italian pathway to SKA

Program

Note for Speakers

Invited Talks (indicated by *):

30 min slots=25 min talk + 5 min questions

25 min slots=20 min talk + 5 min questions

Contributed Talks:

20 min slots=15 min talk + 5 min questions

15 min slots=12 min talk + 5 min questions

- Tuesday, June 19, 2012 -

Session 1: Introductory talks on the SKA (chair: G. Vettolani)

09:15 - 09:30 Welcome Address: R. Liberali* (Head of Department, MIUR)
G. Bignami* (INAF President)

09:30 - 10:00 The SKA project (M. Van Haarlem*; SKA Interim General Director)

10:00 - 10:30 The SKA: At the Frontiers of Astronomy, Physics, and Astrobiology
(J. Lazio*; SKA Project Scientist)

10:30 - 11:00 Technology challenges for the SKA (P. Dewdney*; SKA Project Engineer)

11:00 - 11:30 Coffee break

Session 2: SKA in Europe (chair: G. L. Feretti)

11:30 - 11:50 The European SKA Consortium (T. Van der Hulst*; ESKAC chairman)

11:50 - 12:10 A global approach to build the world-wide SKA - Industry partnership (C. Perna*; INAF)

12:10 - 12:30 RadioNet3 & SKA (F. Mantovani; IRA - MPIfR)

Session 3: SKA Precursors and Synergies (chair: G. L. Feretti)

12:30 - 12:55 The ASKAP project and its contribution to Galactic Radioastronomy
(G. Umana*; OA Catania)

12:55 - 14:30 Lunch break

Session 3: SKA Precursors and Synergies - continued (chair: G. L. Gregorini)

14:30 - 14:50 Southern African Astrophysics on its way toward the SKA (M. Vaccari; SKA Suth Africa)

14:50 - 15:15 Planet formation and synergies with ALMA (L. Testi*; OA Arcetri - ESO)

Session 4: Magnetism (chair: L. Gregorini)

15:15 - 15:40 Magnetic fields and Cosmic Rays in large scale structure:
from LOFAR to SKA (G. Brunetti*; IRA)

15:40 - 15:55 Intracluster Magnetic Fields (V. Vacca; IRA)

15:55 - 16:30 Coffee break

Session 5: Technology for the SKA (chair: S. Montebugnoli)

16:30 - 16:45 From ALMA to SKA: a global technology approach (G. Marchiori; EIE Group Italy)

16:45 - 17:05 Aperture Array for Low frequencies AALo (J. Monari; IRA)
17:05 - 17:20 Dual-polarization Vivaldi Array Element for AALo (G. Virone; CNR IEIT)
17:20 - 17:35 Measure of the RF antenna pattern using UAV (M. Piras; PoliTO)
17:35 - 17:50 The Italian Industry Initiative for Large Astrophysical Projects (R. Cimmino; TechNapoli)
17:50 - 18:05 Power supply for the SKA: a technological challenge (G. Bianchi; IRA)

20:00 Conference dinner at the restaurant “Checco dello Scapicollo”

- Wednesday, June 20, 2012 -

Session 6: Transients (chair: P. Caraveo)

09:30 - 09:55 General relativity tests with pulsars (A. Possenti*; OA Cagliari)
09:55 - 10:20 Supernovae with SKA (M. Della Valle*; OA Capodimonte)

Session 7: Probing the Dark Ages (chair: P. Caraveo)

10:20 - 10:45 Enabling parameter space exploration of the 21 cm signal: next generation tools for Early Universe astrophysics (A. Mesinger*; Scuola Normale Pisa)
10:45 - 11:10 Cosmology with GRBs: status and perspectives (L. Amati*; IASF BO)

11:10 - 11:40 Coffee break

Session 8: Galaxy evolution, Cosmology & Dark Energy (chair: A. Ferrara)

11:40 - 12:05 Cosmology with future large sky surveys (R. Scaramella*; OA Roma)
12:05 - 12:30 Dark Energy models towards observational tests and data (S. Capozziello*; OA Capodimonte)
12:30 - 12:55 SKA and Galaxy Formation - Evolution (A. Franceschini*)

12:55 - 14:30 Lunch break

Session 8: Galaxy evolution, Cosmology & Dark Energy - continued (chair: A. Wolter)

14:30 - 14:55 Radio Continuum Surveys & Deep Fields with the SKA (I. Prandoni*; IRA)
14:55 - 15:10 Jets, accretion & feedback in AGNs (M. Giroletti; IRA)
15:10 - 15:25 The radio feedback in cool core clusters at high-z (P. Tozzi; OA Trieste)
15:25 - 15:40 Imprints on the CMB at low frequency & high resolution with the SKA (C. Burigana; IASF BO)

Session 9: Astrobiology & SETI (chair: A. Wolter)

15:40 - 15:55 SKA and the Future of Astrobiology and SETI (C. Maccone; IASF MI)

15:55 - 16:30 Coffee break

Session 10: General Discussion

16:30 - 18:00 The Italian Pathway to SKA: scopes & organization