

# THE MANY FACETS OF EXTRAGALACTIC RADIO SURVEYS: TOWARDS NEW SCIENTIFIC CHALLENGES

OCTOBER 20 - 23, 2015  
CNR RESEARCH AREA, 101 VIA GOBETTI  
BOLOGNA, ITALY

<http://www.ira.inaf.it/meetings/survey2015/>

## INVITED SPEAKERS:

L. Agudo (IAA, Spain)  
R. Beswick (JBO, UK)  
R. Braun (SKAO)  
R. Cassano (INAF-IRA, Ita)  
J. Condon (NRAO, USA)  
P. Diamond (SKAO)  
R. & C. Fanti (INAF-IRA, Ita)  
M. Garrett (ASTRON, NL)  
F. Govoni (INAF-OAC, Ita)  
G. Heald (ASTRON, NL)  
G. Helou (Caltech, USA)  
A. Hopkins (AAO, Aus)  
R. Laing (ESO)  
J.-P. Macquart (Curtin Univ., Aus)  
T. Oosterloo (ASTRON, NL)  
P. Patel (UWC, RSA)  
M. Santos (UWC, RSA)  
A. Slyz (Oxford Univ., UK)  
V. Smolcic (Zagreb Univ., Croatia)  
R. van Weeren (CFA Harvard, USA)

## SOC:

R. Morganti (ASTRON) co-chair  
I. Prandoni (INAF-IRA) co-chair  
P. Best (ROE)  
A. Bonafede (Hamburg Univ.)  
R. Braun (SKA Org)  
L. Feretti (INAF-IRA)  
M. Jarvis (Western Cape/Oxford Univ)  
E. Murphy (Caltech)  
R. Norris (CSIRO)  
M. Perez-Torres (IAA)  
L. Saripalli (Raman)  
T. Venturi (INAF-IRA)

## LOC:

R. Cassano (co-chair)  
I. Prandoni (co-chair)  
A. Casoni  
D. Guidetti  
R. Lico  
R. Ricci  
M. Stagni

## SCIENTIFIC TOPICS:

Radio continuum surveys are a powerful tool to detect large number of objects over a wide range of redshifts and obtain information on the intensity, polarization and distribution properties of radio sources across the sky. They are essential to answer to fundamental questions of modern astrophysics.

The purpose of this meeting is to explore new scientific perspectives offered by modern radio surveys, focusing on synergies allowed by multi-frequency, multi-resolution observations. We will bring together researchers working on wide aspects of the physics and evolution of extra-galactic radio sources, from star-forming galaxies to AGNs and clusters of galaxies, including their role as cosmological probes.

Credits:  
BACKGROUND IMAGE: radio/LOFAR-HBA, "Toothbrush" field, courtesy R. van Weeren  
CLUSTER RELIC: radio/GMRT-610 MHz, from R. van Weeren, et al. 2010, Science, 330, 347  
FORNAX A polarization image: courtesy NRAO/AUI

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