



RADIO ASTRONOMY SCHOOL - 2013

The National Centre for Radio Astrophysics (NCRA) of the Tata Institute of Fundamental Research invites applications for an advanced Radio Astronomy School (RAS-2013) to be held from 19 to 30 August 2013 at NCRA, Pune.

Objective: To provide the upcoming generation of astronomers exposure to the techniques and excitement of radio astronomy, especially in the context of the Giant Metrewave Radio Telescope (GMRT) which is currently undergoing a major upgrade. The RAS-2013 will consist of lectures on radio interferometry theory and techniques, with an emphasis on their application at low radio frequencies. It will include hands-on tutorials demonstrating the analysis of the GMRT data using standard software packages.

Who can apply: The school is aimed at doctoral students, post-doctoral researchers and faculty members in astronomy or related subjects. We will also consider applications from graduate and under-graduate students with sufficient background in radio astronomy (e.g. those who have attended the winter school in radio astronomy at NCRA). Preference will be given to those who are either already using, or have a keen interest in using, the GMRT for their research programmes.

How to apply: Prospective participants should apply by email to ras@ncra.tifr.res.in by 7 June 2013. The application should include a curriculum vitae and a detailed write-up explaining why the applicant would like to attend the RAS-2013. Candidates will be informed of their selection or otherwise by 14 June 2013 by email.

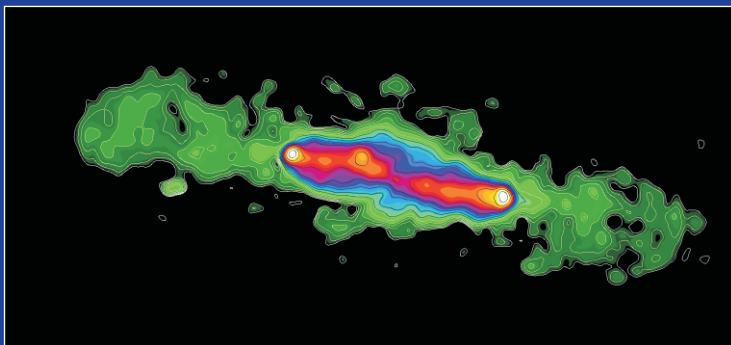
Accommodation for the period of the RAS-2013 will be provided to all participants. Financial assistance for local expenses and travel within the country may be given to selected participants, if they are unable to obtain support from their parent institution. Please mention whether you will need financial support in your application.

Candidates from countries outside India may also apply for the RAS-2013. If selected, their participation in the RAS-2013 would be subject to their obtaining an Indian visa and any necessary clearances from the appropriate government authorities.

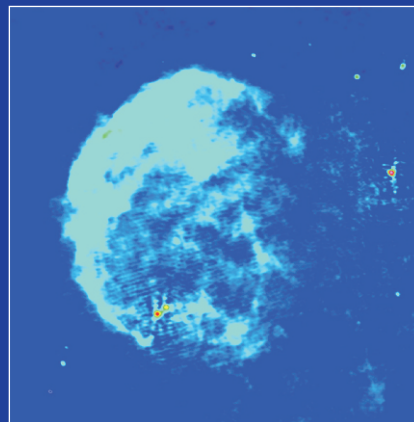
Important Dates:

- Last date for accepting applications : 7 June 2013.
- Candidate selection : 14 June 2013.
- Radio Astronomy School -2013 : 19-30 August 2013

Information about the **RAS-2013** can be found on <http://www.ncra.tifr.res.in>



GMRT map of the radio galaxy 3C452 at 325 MHz. It has revealed, for the first time, faint fossil radio emission beyond the hotspots. If such low surface brightness emission is found in other powerful radio galaxies, it will have important implications for our understanding of the role of radio galaxies in the evolution of the universe (S. K. Sirothia et al. 2013, ApJ, 765, L11).



A 150 MHz GMRT map of a supernova remnant (SNR) IC443. The SNR shell is about 35 arc min in diameter. The colour scale is chosen to highlight the extended SNR emission which is 10-100 times weaker than the emission from the compact background source in the field.

Background image: Whirlpool Galaxy, also known as M51 and NGC5194, at 325 MHz, as imaged by GMRT.

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