

RadioNet support for scientific events

Application form for organisers

EVENT INFORMATION	
TITLE	Radio2018 - Recent Progress in Radio Astronomy
PLACE	Jena, Friedrich-Schiller-Universität
ORGANISER'S INSTITUTE NAME	Dr. Matthias Hoefft ¹ , <i>Thüringer Landessternwarte (TLS)</i> ; Prof. Marcus Brüggen, <i>Hamburger Sternwarte (UHH)</i> ; Dr. Stefanie Mühle, <i>Argelander-Institut für Astronomie (AIfA)</i> , <i>Universität Bonn</i> ; Prof. Ralf-Jürgen Dettmar, <i>Ruhr-Universität Bochum (RUB)</i> ; Dr. Hans-Rainer Klöckner, <i>Max-Planck-Institut für Radioastronomie (MPIfR)</i> ; Prof. Dominik Schwarz, <i>Universität Bielefeld (UBi)</i>
DATE	24-26 October 2018
NO. OF PARTICIPANTS	50
TOTAL EVENT COST	8550 Euro
RADIONET SUPPORT	5250 Euro
OTHER SOURCES OF FUNDING	TLS: 600 Euro, UHH 800 Euro, RUB: 400 Euro, AIfA: 400 Euro, UBi: 550 Euro, MPIfR: 550 Euro
REQUEST	
Short abstract of the event	<p>Tremendous progress in developing and implementing a new generation of radio interferometers has been made in recent years and will be made in the upcoming decade. For instance, LOFAR has started to survey the northern sky with unprecedented resolution and sensitivity at low frequencies, the MeerKAT telescope is becoming operational and ALMA has led to spectacular discoveries. It is essential that a wider community learns about the capabilities of the new large radio astronomical research infrastructure and gets involved in its further development.</p> <p>Several speakers from across Europe are invited to present recent research highlight from various fields of radio astronomy. The radio astronomy community, in particular from Germany, will be invited to join the Radio2018 meeting.</p> <p>For LOFAR the meeting is very timely since the first data of the sky survey are about to be released and the transition to LOFAR2.0 needs to be discussed.</p> <p>The Radio2018 meeting², organized by the German Long Wavelength consortium (GLOW), comprises the symposium covering a wide range of radio astronomical research with invited and contributed talks; workshops of the German LOFAR, MeerKAT and SKA communities; and the annual assembly of GLOW consortium.</p> <p>The aim of the meeting is to bring together groups working with the different new and upcoming telescopes and fostering the exchange of experience between the groups.</p>

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² A program will be soon available on the web pages of the GLOW consortium: www.glowconsortium.de

Relevance for RadioNet	<p>The Radio2018 symposium will bring together scientists and developers from universities and research institutes working for instance with Effelsberg, IRAM, ALMA, MeerKAT or LOFAR. To present most recent discoveries several experts from Europe are invited.</p> <p>LOFAR is currently planning a significant upgrade (LOFAR 2.0) which will ensure that the European LOFAR telescope will remain world leading at low frequency in the upcoming decade. The LOFAR meeting, including developers funded by the D-LOFAR Verbundforschungsprojekt, is essential to discuss priorities for LOFAR 2.0.</p> <p>Moreover, GLOW has active groups fostering the participation in MeerKAT and the SKA. The Radio2018 meeting is crucial to exchange information within the MeerKAT group, including software developers for MeerKAT funded by the D-MeerKAT Verbundforschungs-Projekt. MeerKAT and the SKA will be world leading radio telescopes in the next decade. The GLOW activities aim for building up a larger radio astronomy community, in particular in Germany, and to facilitate that a broad community will make use of the upcoming facilities.</p> <p>Finally, the GLOW annual meeting 2018 is organised together with the German ARC node. This gives the unique possibility that a wide radio astronomical community will assemble and will be able to discuss recent scientific results, to exchange experiences and to develop future projects.</p>
Impact on RadioNet	<p>Presenting recent highlights to a wider community is important to demonstrate how upcoming radio astronomical research infrastructure will help to advance knowledge in astronomy, for instance how large radio surveys help to answer questions in cosmology, how the Event Horizon Telescope helps to understand fundamental physics and how space weather can be studied using very low frequencies.</p> <p>Bringing together different group in radio astronomy, e.g. the ALMA, MeerKAT and LOFAR working groups is essential to foster exchange of knowledge between the groups. For instance, approaches for data calibration will be discussed. Furthermore, radio astronomy has to deal with very large amounts of data. To handle these huge data volumes requires new technologies for storage, data retrieval and data processing. Part of the symposium will be dedicated to discuss the data challenges which are cross disciplinary.</p>
Use of the RadioNet contribution	<p>It is essential for the meeting that world leading experts can be invited and will give insight into recent development and future prospects. For instance, we asked S. Zaroubi (University of Groningen, NL) to review the current results of observations to detect the Epoch of Reionization; C. Jackson (ASTRON, NL) to present the current planning for SKA low; and A. Krankowski (Olsztyn, PL) to present efforts to monitor the ionosphere. For some of the invited speakers it is necessary to cover travel costs, at least partly. Presumably, we will have to support travel cost for six invited speakers, each speaker by 550 Euro. Two of them can be supported by the organizing institutes, for four speakers RadioNet support is required.</p> <p>We also encourage students and young researches to participate in the Radio2018 meeting. Some of them will not be able to join the meeting without travel support. We plan to support ten students each of them by 400 Euro. The travel costs of four students can be covered by the organizing institutes. We request the travel support for four students.</p> <p>There will be several coffee breaks. Also a lunch light buffet will be offered on Thursday and Friday at the location of the meeting. Total costs for the catering are expected to amount 1800 Euro. The organizing institutes will be able to cover 600 Euro.</p>
Ethics	<p>In the selection of presentations, we will strive for equal representation of male and female astronomers, German and foreign nationals as well as a broad age distribution. The invitation goes out to the broad radio astronomical community within Germany and an inclusive, non-discriminatory code of conduct is expected from every participant.</p>

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Place & Date:

Jena, 1 July 2018

Signature of the applicant:

