

# RadioNet support for scientific events

## Application form

EVENT INFORMATION	
TITLE	The big impact of a big dish: science with the Effelsberg 100-m radio telescope
PLACE	MPI für Radioastronomie, Bonn, Germany
ORGANISER'S INSTITUTE	Max-Planck-Institut für Radioastronomie
DATE	9 <sup>th</sup> -11 <sup>th</sup> November, 2017
NO. OF PARTICIPANTS	~50 (35-40 from abroad)
TOTAL EVENT COST	<p>Approximately 6500 €, divided as follows:</p> <p>250€ Blocks and pens</p> <p>1250€ = 50 participants x 5 coffee breaks x 5€ each</p> <p>1000€ = 50 participants x 20€ per person for reception with refreshments</p> <p>500€ = bus for travel from Bonn to the radio telescope Effelsberg</p> <p>2000€ = travel and accommodation for 4 invited speakers</p> <p>1000€ = accommodation for 8 junior scientists at the MPIfR guest apartments</p> <p>750€ = 50 participants x 3 days x 5€ lunch expenses at MPIfR canteen</p>
OTHER SOURCES OF FUNDING	<p>Supported from the MPIfR central budget, who provides as well the infrastructure and support personnel.</p> <p><i>Please specify the other sources of funding and their level</i></p>
REQUEST	
<i>(max 2 pages)</i>	
Requested contribution [EURO]	<p>Herewith we request 4250€ to support the meeting. See the distribution of expenses below.</p> <p><i>Please specify the level of the requested RadioNet support [EURO]</i></p>
Use of the RadioNet contribution	<p>The contribution from RadioNet is planned to cover following costs:</p> <p>500€: Bus from the MPIfR to the Effelsberg telescope and back (40km away from Bonn)</p> <p>2000€: Travel and accommodation for four invited speakers within Europe, assuming 200€ travel + 300€ accommodation. The invited speakers are selected by the SOC, with the adequate gender and experience balance for the different topics.</p> <p>1000€: Accommodation for 8 junior scientists (PhD researchers or young postdoctoral researchers) at the MPIfR guest apartments for four nights (30€ per night and person) as support to the conference. Preference will be given to individuals with an approved oral presentation and to co-proposers of approved observing projects at the 100m-telescope.</p> <p>750€: lunch at the MPIfR canteen for the 60 participants during the three days of the conference.</p> <p>The allocation of the infrastructure, coffee breaks and an evening reception with refreshments will be covered by the MPIfR budget.</p> <p><i>Please specify in detail the use of the RadioNet support, indicating the expenses (e.g. who,</i></p>

	<i>how much, for what, selection criteria) and keep in mind the goal of RadioNet<sup>1</sup>.</i>
How the event fits in the RadioNet framework	<p>The 100-m radio telescope of the MPIfR at Effelsberg is one of the major astronomical facilities in Europe. It is supported by RadioNet through the TransNational Access program and participates in the joint research activity BRAND (for a prototype broad-band digital receiver). This meeting is designed to report and enhance the scientific impact of the telescope, and so better exploit the potential of RadioNet funding.</p> <p><i>Please specify the scientific impact of the event on the RadioNet community.</i></p>
Relevance of the event for RadioNet	<p>Even more than 40 years after its inauguration, the 100-m telescope is still one of the two largest fully-steerable radio telescopes in the world, and — due to continuous efforts by the institute and the Max Planck Society and with support through e.g. RadioNet — in an excellent shape. It is heavily used for astronomical observations and accessible by users from all over the world due to its "Open Skies" policy. In the past years, many observers from within Europe used the telescope for their observations and a number of these users received support by the TransNational Access program.</p> <p>The science done at the 100-m telescope has many dimensions: it yields continuum total intensity and polarised images of the Northern sky, it participates in several telescope networks in very-long-baseline interferometry mode (e.g. at the MPIfR-ordinated Global mm-VLBI Array and as the heart of the European VLBI Network, for which JIVE-ERIC as another RadioNet-supported facility performs the correlation) and in pulsar mode (as part of timing arrays), it monitors in single-dish mode the total intensity and polarised emission of blazars in the F-GAMMA program to match <math>\gamma</math>-ray observations by the <i>Fermi</i> telescope and optical observations by the RoboPol, it provides spectroscopical information from atomic and molecular emission in our Galaxy and beyond, complementarily to the IRAM and ALMA facilities at high frequencies and mapping hydrogen in the universe at low frequencies. Additionally to the science, the technical developments in receivers and backends are essential to maintain the scientific leadership of the telescope and will also play a role in the conference.</p> <p>This meeting is intended to bring together various user groups of the 100-m telescope with the support staff of the observatory and the technical developers. This should allow discussing recent observational results, technical developments and operational matters with the users of the telescope. Furthermore, this meeting will give the telescope staff the possibility to learn about new ideas for observing projects and will allow planning technical and software developments for the next years. In addition, the organizers seek to attract your (students and PostDocs) and other first-time users to propose for observations at the 100-m telescope. This meeting should help to emphasize the possibilities of the telescope.</p> <p>Both the astrophysical and the technical dimensions fit the goals and the spirit of RadioNet.</p> <p><i>RadioNet supports organization of scientific events focussing on scientific results achieved using the RadioNet facilities and/or technical developments of RadioNet activities; additionally cross-disciplinary events with the aim to feed the collaboration between radio astronomers and scientists working in other bands of the electromagnetic spectrum.</i></p> <p><i>In the light of this, please highlight the relevance of your event in the spirit of the RadioNet goals.</i></p>
Ethics	<p>No ethical issues have been identified. The organisers will consider proper balance of gender and minority groups in the speakers and participants, in the spirit the goals set by the EC.</p> <p><i>Please specify how you will address the ethic issues (e.g. gender, ethnic)</i></p>

<sup>1</sup> For more info about the RadioNet scientific dissemination please contact – Dr. T. Venturi (tventuri@ira.inaf.it)