

RadioNet support for scientific events

Application form for organisers

| EVENT INFORMATION | |
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| TITLE | LOFAR MSKP Meeting 2019 |
| PLACE | Bochum, Germany |
| ORGANISER'S INSTITUTE NAME | Ruhr-University Bochum Dominik J. Bomans --- bomans@astro.rub.de |
| DATE | September 23-27, 2019 |
| NO. OF PARTICIPANTS | 50 |
| TOTAL EVENT COST | 13200 € |
| RADIO.NET SUPPORT | 6600 € |
| OTHER SOURCES OF FUNDING | Conference fee 120 € for normal participants for the whole week, 80 € for the science meeting only, students at 50% reduced rates (=> ~ 3600 €), plus 3000 € support from the RUB Research Department "Plasmas with Complex Interactions". |
| REQUEST <i>(max. 2 pages)</i> | |
| Short abstract of the event | <p>With the start of operation of digital phased array telescopes the area of low frequency, m-wave radioastronomy has grown into a very active field during the last years, not in the least due to the European LOFAR array. Six of the LOFAR stations are located in Germany, one is operated by the Ruhr-University (in collaboration with the Jülich research center). In Germany groups at national research centers (e.g. MPIfR, MPIA, AIP) and at several universities are active in m-wave radio astronomy, forming a fast growing community within the German astronomy.</p> <p>Of the 6 LOFAR Key Science Programs, the Magnetism KSP (MKSP) is dedicated to the exploration of magnetic fields (via observation of non-thermal emission and its polarization) of a multitude of sources (e.g. pulsars, the interstellar medium of the Milky Way, galaxies, galaxy groups, galaxy clusters, and the intergalactic medium). The meeting will be the next in the series of annual meetings of the MKSP community to discuss the newest results, and new methods of data reduction and analysis, as well as to plan strategies for future observation projects.</p> <p>This time special emphasis will be devoted to RM grids and synergies with the Surveys KSP. The Meeting will consist of a science meeting during the first 2 ½ days and several practical/technical workshops ("busy days") during the last 2 ½ days.</p> |
| Relevance for RadioNet | <p>LOFAR is an international, European telescope, and a RadioNet facility. The annual MKSP meeting is intended to strengthen the collaboration between the many groups in Europe (and e.g. Australia and South Korea) which are using this unique and complex telescope. The size and complexity of the data and their large information content still is not fully unlocked and personal exchange on science ideas and data reduction and analysis techniques are of especially high value at this stage of the LOFAR project.</p> <p>The MSKP lists more than 100 members, many of them young scientists working on their PhD and young postdocs. At this relatively early career stage networking and discussion possibilities at a smaller scale, dedicated meeting will be extremely helpful. We plan to use the proposed RadioNet support to significantly lower the financial barrier for e.g. PhD students to attend the MKSP meeting and to help compiling a high profile and diverse science program.</p> |

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| | While the second half of the meetings is dedicated to enhance technical abilities, the first half will allow to discuss the cutting edge of LOFAR based research on cosmic magnetic fields. The meeting will therefore give researchers currently not in MSKP a good starting point to join this research area. |
| Impact on RadioNet | <p>The primary goal of the meeting is to provide a platform for the researchers using the RadioNet facility LOFAR for research in the area of cosmic magnetic fields. The format of the meeting will be optimized to allow ample discussion time for the newest results, and new approaches in data reduction and analysis. The meeting will also foster new and strengthen the existing interaction in the collaboration, and in particular allow young people to establish and strengthen networks and broaden their scientific outlook.</p> <p>Since LOFAR data reduction and analysis is still not a finalized and stable work flow, like to a large part in cm wavelength radio astronomy, regular discussions and practical workshops ("busy days") are an integral part of the MKSP meetings. Busy days are an important and established method inside the LOFAR community and especially the MKSP to push LOFAR data quality and therefore scientific output.</p> <p>We will use the science part of the meeting not only to discuss the latest science results and technical developments, but also use this opportunity for outreach activities as public lecture during the MKSP week to present LOFAR based science and RadioNet to the public. The series of MKSP annual meetings runs since 2007 and where often supported by RadioNet.</p> |
| Use of the RadioNet contribution | <p>We propose to use the RadioNet support to:</p> <ul style="list-style-type: none"> - Cover accomodation for 5 invited speakers for review talks anchoring the science sessions, each for 3 nights of 80 € = 1200 € - Support accomodation of young scientists at student dormitories near campus, for the whole week 200 € for 10 students = 2000 € - Conference Catering: 2 coffee breaks per day, lunch tickets for the university refectory, for 40 participants (allowing for 20% of the participants not staying the full week) 15 € each = 3000 € - public transportation from the city center (where the hotels are located) to the RUB campus for 40 people = 400 € <p>This results in a proposed contribution by RadioNet of 6600 €</p> |
| Ethics | A code of conduct (CoC) for the participants of the meeting will be in place, adapted from the CoC we successfully introduced at the German Astronomical Society Meeting at Bochum 2016. We will use the instruments of travel support and reduction/waiving the conference fee to ensure an optimal quality science program and strive for appropriate gender balance. |

Privacy Policy: With signing this template and applying for RadioNet funding, I accept the Privacy Policy of RadioNet, which is based on the EU General Data Protection Regulation (GDPR).

Place & Date:

Signature of the applicant:

Bochum, 31.01.2019

