

RadioNet support for organisers of training events

Application form

EVENT INFORMATION	
TITLE	Introduction to Radio Astronomy: current and future facilities
PLACE	<i>Rome, Italy</i>
ORGANISER'S INSTITUTE NAME	Istituto di Astrofisica e Planetologia Spaziali - IAPS Istituto Nazionale di Astrofisica – INAF Contact person: Francesca Panessa (francesca.panessa@inaf.it)
DATE	June 22-26
NO. OF PARTICIPANTS	40
TOTAL EVENT COST	4000 euro
OTHER SOURCES OF FUNDING	<i>The INAF Scientific Central Unit for Radio Astronomy will support the local organization costs (e.g., hall rent, coffee breaks, social dinner)</i>
REQUEST (max. 2 pages)	
Requested contribution	<i>We request 4000 euro to cover the travel expenses of about 10/12 lecturers belonging to RadioNet beneficiaries.</i>
Use of the RadioNet contribution	<i>We will use the RadioNet contribution to cover the travel costs of about 10/12 lecturers belonging to RadioNet beneficiaries. We expect to have 30-40 participants among students and postdocs. The INAF Scientific Central Unit for Radio Astronomy will support the local organization costs (e.g., hall rent, coffee breaks and social dinner), we estimate those to be around 3000 euro. For an overall budget of 7000 euro.</i> <i>The proposed school is open to any student or researcher interested in radio/sub-mm astronomy with the aim of disseminating the basics knowledge on radio astronomy and update the astrophysical community on the existing European radio facilities and their scientific use and impact. Astrophysicists from different backgrounds are encouraged to attend in order to exploit the multi-frequency synergies.</i>
Impact of training	<i>Three different Universities (La Sapienza, Roma Tre, Tor Vergata) and two different INAF institutions (INAF-IAPS and INAF-OAR) are present in the city of Rome. However, no radio astronomy lessons are taught in any of the Universities, nor existing research groups in radio astronomy are present in the area. Within the research group at IAPS (http://gral.iaps.inaf.it), we are recently acquiring an expertise in radio astronomy. A school in radio astronomy held in Rome will allow us to involve local University students and researchers in astrophysics and spread the basics knowledge of radio astronomy to foster the exploitation of European radio facilities. The final aim is to grow the already existing small group of radio astronomers in Rome and possibly create a new centre for radio astronomy in this so far poorly represented (in terms of radio astronomy) region of Italy. This initiative will find fertile ground as multi-frequency astrophysics is becoming a more and more necessary tool for tackling the major astrophysical open questions.</i> <i>Lecturers belonging to RadioNet beneficiary institutions, world experts in the field of single dish and interferometry, will teach classes on introduction to radio astronomy and interferometry, data analysis and interpretation, overview of the current and future facilities,</i>

	<p><i>main scientific topics of interest and tools for proposal writing. The school will also feature simple hands-on sessions to introduce the participants to the main radio astronomical softwares and pipelines. The lecture topics range from single dish (Effelsberg) and interferometry. In particular, we will cover the VLBI interferometry (EVN) and the low frequency (LOFAR domain), cm-wave (e-MERLIN domain) and high frequency (ALMA/IRAM domain). We expect a transfer of knowledge from expert radio astronomers to the future generation of astronomers and researchers interested in the field.</i></p>
Accessibility	<p><i>Students from the Universities and postdocs from the Institutes in Rome will be encouraged to attend the school. We expect 15-20 participants from the local area. We will also open the registration to the international community in order to reach the final number of 30-40 attendees. The selection of the participants will be made on the basis of their motivated interest in radio astronomy, respecting as much as possible the gender, ethnic diversity and geographical balance.</i></p>
Ethics	<p><i>Italy is one of those few countries where the gender balance is well taken into account. We aim at inviting lecturers from different RadioNet infrastructures, paying attention to respect the gender and geographical balance. Young scientists experts in the field will be also encouraged to help in the hands-on session and to contribute to the teaching process. This event is complementary to the ERIS school, aiming at a more general introductory approach to radio astronomy. In addition, the next ERIS school is planned for next year, therefore is it not in conflict with the proposed school.</i></p>
<p>Privacy Policy: <i>With signing this template and applying for RadioNet funding, I accept the <u>Privacy Policy of RadioNet</u>, which is based on the EU General Data Protection Regulation (GDPR).</i></p>	
Place & Date:	Signature of the applicant:
<p>Rome 28/01/2020</p>	