

RadioNet support for training events

Application form

EVENT INFORMATION	
TITLE	Workshop: Ed Fomalont's lectures on Self calibration
PLACE	INAF - Istituto di Radioastronomia Bologna
ORGANISER'S INSTITUTE	Italian node of the EU ALMA Regional Centre / INAF-Istituto di Radioastronomia, Bologna
DATE	Beginning of december (exact dates not fixed yet)
NO. OF PARTICIPANTS	< 25
TOTAL EVENT COST	Euro 2500
OTHER SOURCES OF FUNDING	<i>Please specify the other sources of funding and their level</i> Italian ALMA Regional Centre; Euro 500
REQUEST <i>(max. 2 pages)</i>	
Requested contribution [EURO]	<i>Please specify the level of the requested RadioNet support [EURO]</i> 2000
Use of the RadioNet contribution	<i>Please specify the use of the RadioNet contribution, e.g. approximately how many people will be supported, is this students, tutors, etc.? Which other costs exist? What is the overall budget for the event? How will this event contribute to RadioNet goals?¹</i> RadioNet support will be used entirely to cover travel and subsistence costs for the tutor: Ed Fomalont (based in Santiago, Chile). He is a well known expert on many aspects of interferometry, and will give lectures and practical tutorials on self-calibration technique, which is extremely useful for new generation radio interferometers, focussing mostly on ALMA data.
Relevance for RadioNet and impact	<i>RadioNet fosters the skills needed for exploitation of European radio astronomy facilities by researchers worldwide. It will enable radio astronomers to take advantage of global best practices and research opportunities and help newcomers to radio astronomy to learn current state-of-the-art techniques, and encourage them to stay in the field.</i> <i>The training events should aim at astronomers and engineers in order to communicate, and indeed develop techniques needed to plan observations, reduce and interpret data from present and next-generation facilities. This ensures that there will be sufficient experts in the market to support their communities in making use of new opportunities (ALMA, EHT and SKA, and the other rapidly-evolving RadioNet facilities).</i> <i>In the light of this, please highlight the relevance of your event in the spirit of the RadioNet goals and outline the anticipated impact of the event e.g. on knowledge transfer to the next generation of scientists and engineers.</i> The main purpose of this short workshop is to obtain a better understanding of the self-calibration technique, in particular on ALMA data, with the help of Ed Fomalont. Self-calibration is a powerful calibration technique, extensively used in new generation interferometers. ALMA data benefit from self-calibration, in particular for high dynamic range

¹ For more information about the RadioNet training contact – Dr. A. Richards (a.m.s.richards@manchester.ac.uk).

	<p>fields, but it could also be a very useful tool to identify problems with the data (such as faulty antennas, for example). This workshop will be a unique opportunity for the participants to familiarize themselves with self-calibration and to discuss about it in an informal way with one of the biggest expert in the field.</p>
Accessibility	<p><i>Please specify the selection criteria for attendees</i></p> <p>Members of the European ALMA Regional Centre Network will be invited to attend, as well as interested people in the host institute.</p>
Ethics	<p><i>Please explain how you will encourage ethical issues such as gender, ethnic diversity, reaching new communities, as relevant.</i></p> <p>Participation is open to all members of nodes of the European ALMA Regional Centre and all interested people working at the Istituto di Radioastronomia, regardless of race, gender or physical ability.</p>