



# RadioNet support for scientific events

## Application form

EVENT INFORMATION	
TITLE	IAUS 342: Perseus in Sicily
PLACE	Noto (Italy)
ORGANISER'S INSTITUTE	INAF Istituto di Radioastronomia
DATE	14-18 May 2018
NO. OF PARTICIPANTS	180 (estimated)
TOTAL EVENT COST	75k€ (estimated)
OTHER SOURCES OF FUNDING	IAU: 20k€ (about 10k€ <u>for travel grants</u> for scientists with limited means of support); INAF: 5k€ (requested); Local authorities: 2k€ (requested); registration fees: 50k€
<b>REQUEST</b> <i>(max 2 pages)</i>	
Requested contribution [EURO]	8000; we are aware that this constitutes a substantial fraction of the RadioNet budget for this call, however we detail in the following the great importance of the meeting both in general science terms as well as for the RadioNet community and goals in particular. We therefore believe that this contribution would represent an ideal investment of the EU money. We further point out that – despite receiving significant funding from the IAU – those funds are mainly in the form of travel grants, which ensures a large and diversified participation, resulting in turn in an enhanced need of additional support for the meeting.
Use of the RadioNet contribution	The RadioNet support will be used towards two main goals. The <b>first</b> , and foremost, is to support the attendance of participants, in particular from less privileged countries; we note that this is an IAU Symposium, therefore a large interest is expected from all the countries, including those where researchers are less able to travel; the IAU itself allocates a substantial amount of money to fund travel grants for these participants; however, it is fundamental that the <b>local expenses</b> are also <b>kept to a minimum</b> in order to make their participation sustainable; for this reason, we plan to include all <b>lunches</b> in the registration fee. We would like to use the RadioNet funds to pay for the lunches of about 1/3 of the participants, i.e. the fraction that we expect to be coming from <b>less favoured countries, institutes, career stages</b> . For a full week, we expect 180 people x 0.33 fraction of participants x 5 lunches x 20 € (VAT included) = 6000 €, for this goal. <b>In addition</b> , we would like to use the RadioNet support to pay the <b>conference room</b> , which for a large attendance (~180 people) and a full 5-days week, will be around <b>2000 €, including child care</b> . In total, we ask for <b>8000 €, 3/4 of which directly for the support of participants</b> .
How the event fits in the RadioNet framework	Having been selected as an IAU Symposium, this meeting has already received a clear recognition of its excellent science merit. It has a broad range of topics, all of very high impact and timeliness in the current research framework. We point out here two such highlights, which show the relevance for both the high angular resolution and the large scale domain, for the more traditionally radio-oriented and the multi-wavelength community, for the European and international institutions, and the observational and theoretical approaches: (1) the results from Space VLBI observations, using ground arrays such as the EVN and the VLBA and the Russian satellite Radioastron, which have revealed the structure of the jet launch region in 3C84 with unprecedented detail, a result that has fundamental implications on the modelling of the accretion-ejection interplay in the

	<p>surrounding of supermassive black holes; (2) the discovery of a surprisingly low amount of turbulence on cluster scales, reported for Perseus by an international team using the only available dataset obtained with the Japanese X-ray satellite Hitomi; besides the exquisite and unprecedented energy resolution of the dataset, and its importance for the planning of future missions, the theoretical implications on the physics of the intracluster medium and the energy transport are simply fundamental.</p> <p>The Perseus cluster has been selected as an outstanding environment to study these and other topics in great detail. Indeed, this laboratory has been the subject of astrophysical studies for about five decades already, and because of its proximity and richness it is expected to remain at the forefront of the research throughout the SKA and the future multi-wavelength instrumentation as well: the involvement of both senior scientists, with their expertise and broad scope, and junior researchers, which will become the leaders of tomorrow, is ensured.</p>
Relevance of the event for RadioNet	<p>Having taken part to the ground support for the Space VLBI observations leading to the discovery of the sub-milliarcsecond scale structure of the jet launch region in 3C84, the RadioNet supported European VLBI Network will receive a great visibility at this meeting. The meeting itself will take place in Noto, where one of the EVN stations is located, and a visit to the facility will be offered to the participants. More generally, the science topics involved by both the small and large angular scales dealt with in the conference are the ideal subjects of studies with RadioNet facilities such as LOFAR, eMERLIN, and the high frequency VLBI arrays to which APEX and the IRAM facilities participate (GMVA, EHT). Being a large and multi-wavelength meeting in nature, this event will also ensure the interplay of the traditional RadioNet community with a large pool of scientists with different backgrounds. In terms of advertisement for RadioNet and its facilities, and of fostering opportunity to create added value through synergetic multi-wavelength studies, the relevance of this meeting in the spirit of the RadioNet goals cannot be overstated.</p> <p>We will assure the visibility of the support by including on our web page and at any advertisement media the project's and EU logos, and the acknowledgment sentence; we will also submit the requested report of the event.</p>
Ethics	<p>Ethics has been for long time an important concern of the IAU. Our SOC has a clear understanding and commitment on this issue: within our committee, we have an excellent balance of gender, age, and geography. While science remains our primary selection criterion, our current list of potential invited speakers displays a good balance of genders (12M, 14F) and provenience (14 countries from 5 continents). More generally, we commit to avoid every possible restriction to participation and active contribution based on gender, race, colour, nationality, and religious or political affiliation.</p>