RadioNet support for scientific events
Application form for organisers

EVENT INFORMATION	
TITLE	**6th Workshop on Compact Steep Spectrum and GHz-Peaked Spectrum Radio Sources**
PNO	*No webpage yet.*
ORGANISER'S INSTITUTE NAME	*Nicolaus Copernicus University, Gagarina 11, 87-100 Torun, Poland* *Magdalena Kunert-Bajraszewska, magda@astro.uni.torun.pl*
DATE	*9 – 12 June 2020*
NO. OF PARTICIPANTS	*about 45*
TOTAL EVENT COST	*10 000 Euro*
RADIONET SUPPORT	*2200 Euro*
OTHER SOURCES OF FUNDING	*National grant: International Academic Partnerships in Sciences with Nicolaus Copernicus University in Toruń – 7 000 Euro,*

REQUEST *(max. 2 pages)*	
Short abstract of the event	This workshop is the sixth in a series and will be organized for the first time in Poland, in the city with astronomical tradition where the Nicolaus Copernicus was born. According to the commonly accepted evolutionary scheme of radio-loud active galactic nuclei (AGN) the GHz Peaked Spectrum (GPS) and Compact Steep Spectrum (CSS) radio sources are the early stages of this evolution. Their radio jets have sizes smaller than few kiloparsecs and the whole radio structure reside within the interstellar medium of the host galaxy. In addition to size, the characteristic feature of these objects is the fact that their radio spectra have convex shapes with peak emission frequency inversely proportional to the source size. During the evolution, the radio jets of GPS and CSS sources start to cross the boundary between the interstellar and the intergalactic medium. The compact radio source can grow further to become large-scale object or its development can be halted at parsec scale for reasons which are under extensive debate nowadays. The early phases of radio source evolution potentially represent an important galaxy feedback process and determine the life cycle of the galaxy. The current possibility of combination of high resolution radio and optical imaging as well as the X-ray and Gamma-ray observations in the research of CSS

	and GPS sources is a powerful scientific tool. Thanks to new facilities like MWA and LOFAR radio telescope the radio imaging is extended now to very low frequencies. This opens new possibilities in study of CSS and GPS namely the extended steep spectrum emission that may surround the objects, the origin of their characteristic convex spectral shape and recurrent radio activity. The aim of this meeting is to present the latest research results and conduct fruitful discussions by theoreticians and observers of CSS and GPS sources in the widest possible frequency range. Previous CSS/GPS workshops: Dwingeloo (1990), Leiden (1996), Kerastari (2002), Riccione (2008) and Rimini (2015).
Relevance for RadioNet	The improvements to existing facilities (VLA, VLBA, EVN) and a new generation of radio telescopes (LOFAR, ALMA, and SKA precursors/pathfinders) are impacting our understanding of CSS and GPS sources. New results achieved thanks to these devices as well as thanks to the collaboration between radio astronomers and scientists working in other bands of the electromagnetic spectrum will be presented at this meeting. This workshop will bring together observers from across the spectrum with theorists for an informal and stimulating exchange of ideas and results.
Impact on RadioNet	The proposed workshop is the sixth meeting in this series. The remaining meetings have so far enjoyed unflagging interest from several dozen people, which proves the need to organize a conference on this topic. The 'CSS / GPS workshop' series already has its own brand. As before and this time we believe that this meeting will have strong scientific impact, as it will (i) unite the astronomical communities by combining scientific ideas in the field of compact AGNs; (ii) consider all astronomical tools on ground and in space suitable for the proposed scientific topics; (iii) allow to conduct scientific cooperations in the whole spectrum of theoretical and technological experts across all wavelength regimes.
Use of the RadioNet contribution	The RadioNet contribution will be used to cover the cost of the coffee and lunch breaks which we estimate at 2200 Euro.
Ethics	We will keep the gender balance amongst the SOC members and invited speakers.

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: 14.06.2018

Signature of the applicant: Magdalena Kunert-Bajraszewska

RadioNet has received funding from the EU's Horizon 2020 research and innovation programme under grant agreement No 730562