

15th EVN Symposium and Users' Meeting
Providing the Sharpest View of the Universe
(Times are Irish Time, Italics = review talk, blue = online talk)

Monday 11 July 2022

08.45–09.00		Welcome and Opening of the Symposium
AGN 1		
		<i>Chairs: Tiziana Venturi, Benito Marcote</i>
09.00–09.40	<i>Denise Gabuzda</i>	<i>AGN Jets in a Nutshell</i>
09.40–10.00	Georgios Paraschos	An extensive analysis of the sub-parsec region of 3C84
10.00–10.20	Minchul Kam	Probing the presence of an external medium at the jet head of 3C84
10.20–10.40	Alexander Pushkarev	Persistent Structure of Magnetic Field in Parsec-scale AGN Jets
10.40–10.45		Posters 1 – AGN
Break		
AGN 2		
		<i>Chairs: Shane O'Sullivan, Felix Poetzl</i>
11.15–11.35	Joana Kramer	Ray-Tracing in Relativistic Jet Simulations
11.35–11.55	Alexander Popkov	Constraints on the extreme brightness generation mechanisms in AGN from the RadioAstron survey and the long-term variability
11.55–12.15	Aletha de Witt	Multi-Frequency Imaging Results of 452 Extragalactic ICRF-3 Radio Sources from Multi-Epoch, Near-Simultaneous Astrometric VLBA Observations
12.15–12.35	Daria Zobnina	Decade-long linear polarization variability properties of parsec-scale AGN jets
12.35–12.40		Posters 2 – AGN
Lunch		
Masers 1		
		<i>Chairs: Anna Bartkiewicz, Andrea Tarchi</i>
14.20–15.00	Liz Humphreys	Stellar evolution through maser studies
15.00–15.20	Michal Durjasz	Yet another 6.7 GHz imaging of the high-mass star-forming region Cep A HW2
15.20–15.40	Gabriele Surcis	6.7 GHz CH ₃ OH masers polarization in massive star-forming regions: the Flux-Limited Sample
15.40–16.00	Malcolm Gray	3D Models of Astrophysical Masers with Polarization
16.00–16.05		Posters 3 – Masers

Break

Surveys, Local Galaxies

Chairs: Francisco Colomer, Richard Porcas

16.30–16.50	Tom Muxlow	The e-MERGE e-MERLIN/VLA/EVN wide-field deep radio survey of GOODS-N
16.50–17.10	Ann Njeri	SPARCS-North Survey: Exploring the resolved microJy extra-galactic radio source population with EVN+e-MERLIN
17.10–17.30	David Williams	The LeMMINGs survey: probing sub-kpc radio structures of nearby galaxies with e-MERLIN
17.30–17.50	Jayende Kumar	The Mass distribution in the central region of the Milky Way and dynamics of the Galactic bar
17.50–18.10	Jun Yang	The radio nucleus of the nearby dwarf galaxy NGC 4395
18.10–18.15		Posters 4 – Stars and the ISM

Tuesday 12 July 2022

Techniques 1

Chairs: Patrick Charlot, Chris Jacobs

09.00–09.40	Nobuyuki Sakai	Maser astrometry
09.40–10.00	Yoshiaki Hagiwara	Ultra-wide band polarimetry using VERA
10.00–10.20	Lucas Hyland	“How to” MultiView - A guide for 10 microarcsecond astrometry
10.20–10.40	Paul Boven	VLBI MultiView Astrometry of Radio Stars
10.40–10.45		Posters 5: Techniques

Break

AGN 3

Chairs: Marcello Giroletti, Suma Murthy

11.15–11.35	Petra Benke	TeV detected AGN jets in the TANAMI program
11.35–11.55	Sang-Hyun Kim	Correlations of the multiwavelength emission in the blazar CTA 102 during 2016-2018
11.55–12.15	Yuri Kovalev	Growing evidence of the blazar–neutrino connection
12.15–12.35	Cristina Nanci	A VLBI investigation of high-energy neutrino emitter candidates
12.35–12.55	Alexander Plavin	Direct confirmation of the VLBI-Gaia offsets nature
12.55–13.00		Posters 6 – AGN

Lunch

Users Meeting

14.30–14.40	Zsolt Paragi	Welcome by the EVN PC Chair & Introduction to JIVE support
14.40–15.00	Alastair Gunn	Update by the EVN Scheduler
	Bob Campbell	Trans-national access in ORP
15.00–15.10	Krisztina Perger	The EVN experience & user feedback on support
15.10–15.20	Yoshiaki Hagiwara	The EVN experience & user feedback on support
15.20–16.00		Interactive poll/ Discussion

Tea & Coffee

16.30–18.00

Wine & Cheese Poster Reception

Wednesday 13 July 2022

AGN 4

Chairs: Denise Gabuzda, Michael Janssen

09.00–09.40	Guang-Yao Zhao	EHT observations of supermassive black holes and relativistic jets
09.40–10.00	Alexei Nikonov	M87 jet instability probed by multi-frequency observations
10.00–10.20	Hyunwook Ro	Spectral Analysis of Parsec-Scale Jet in M87: Observational Constraint on the Magnetic Field Strengths in the Jet
10.20–10.40	Ilia Pashchenko	Unveiling spectral view of the M87 radio jet
10.40–11.00	Anne-Kathrin Baczko	The collimation and acceleration zone of double-sided AGN jets

Break

Transients

Chairs: Zsolt Paragi, Suma Murthy

11.20–12.00	Shivani Bhandari	Fast Radio Bursts
12.00–12.20	Benito Marcote	Milliarcsecond localizations as insights of the local environments and origins of Fast Radio Bursts
12.20–12.40	Prashanth Mohan	The nature of radio emission from the tidal disruption event AT2019dsg

Conference Photo – outside the Western Gateway Building

Lunch and free afternoon

18.45

Conference Dinner in the Aula Maxima at UCC

Thursday 14 July 2022

Stars & Stellar Systems

Chairs: Michael Lindquist, Benito Marcote

09.00–09.40	Sara Motta	Multi-waveband studies of low-mass XRBs
09.40–10.00	Pikky Atri	Finding quiescent black holes with VLBI
10.00–10.20	Juan Climent	Anatomy of an exo-aurora: the magnetosphere of a brown dwarf
10.20–10.40	Marcello Giroletti	Filming the evolution of symbiotic novae with VLBI: the 2021 explosion of RS Oph
10.40–11.00	Ralph Spencer	Minor Flares on Cygnus X-3 – VLBI Prospects

Break

Masers 2

Chairs: Liz Humphreys, Yoshiaki Hagiwara

11.30–11.50	Agnieszka Kobak	The first look at the coincidence of methanol and excited OH masers around HMYSOs
11.50–12.10	Artis Aberfelds	Cloudlet evolution in IRAS 20126+4104 during last 15 years and its periodic variability
12.10–12.30	Elisabetta Ladu	IC 485: A new disk-maser galaxy?
12.30–12.50	Andrea Tarchi	Unveiling fine details of the (giga)maser source in TXS2226-184 with the VLBI
12.50–13.10	Willem Baan	Space VLBI for two H ₂ O MegaMasers

Lunch

Cosmology

Chairs: Leah Morabito, Tom Muxlow

14.30–15.10	Cristiana Spingola	Cosmological studies with VLBI
15.10–15.30	Jeffrey Hodgson	Cosmological QUOKKAS: Using VLBI to make a Hubble Diagram
15.30–15.50	Sandor Frey	J2102+6015: an Intriguing Radio-loud Active Galactic Nucleus in the Early Universe

Break

LOFAR

Chairs: Michael Garrett, Denise Gabuzda

16.10–16.50	Leah Morabito	VLBI Studies with the international LOFAR telescope
16.50–17.10	Shane O'Sullivan	Cosmic Magnetism with LOFAR
17.10–17.30	Haoyang Ye	Elais-N1 field: current International LOFAR sub-

arcsecond deep field imaging strategy

17.40 – 18.20 Michael Janssen CASA VLBI demonstration

19.30 – 21.30 Soccer match

Friday 15 July 2022

Techniques 2

Chairs: Kazi Rygl, Felix Poetzel

09.00–09.20	Chris Jacobs	The Accuracy of the JPL X/Ka Celestial Reference Frame
09.20–09.40	Jacob Brooks	Trialling the use of generative adversarial networks for efficient identification of radio frequency interference
09.40–10.00	Agniva Roy Chowdhury	ngDIFMAP: new generation DIFMAP for Modelfitting Interferometric Data and Estimating Variances, Biases and Correlations
10.00–10.20	Hendrik Mueller	Multiscale VLBI imaging
10.20–10.40	Maria Rioja	The Readiness of EVN Telescopes for the SKA-VLBI Era

Break

AGN 5

Chairs: Tuomas Savolainen, Alet de Witt

11.10 – 11.30	Xiaopeng Cheng	Unveiling the Origin of Radio Emission in Nearby Low-Luminosity AGNs with VLBI
11.30 – 11.50	Almudena Prieto	The power of low luminosity active galactic nuclei: PARSEC view
11.50 – 12.10	Luca Ricci	Exploring the disk-jet connection in NGC 315
12.10 – 12.30	Suma Murthy	Feedback from radio AGN: the case of 4C31.04
12.30 – 12.50	Evgeniya Kravchenko	Brightness temperature distribution and collimation profiles of parsec-scale AGN jets

12.50–13.10 **Conference Summary – Tiziana Venturi**

Lunch