

## Sunday 25 March

17:00 Reception at Hotel Wesseling

## Monday 26 March

9:00 Registration

9:15 Welcome

### Energetics, structure of jets and radio-galaxy populations

Chair: Marisa Brienza

9:30	Judith Croston (o)	Particle content, radio galaxy morphology and jet power: all radio-loud AGN are not equal
9:55	Stas Shabala (o)	Modeling the environmental dependence of radio galaxy populations
10:20	Wendy Williams	The LoTSS first data release
10:40	Beatriz Mingo	What can the extended sources from the LOFAR HETDEX survey teach us about the life cycles of AGN?

11:00 Coffee

11:20	Martin Bourne (o)	Jet feedback in galaxy clusters
11:45	Gianluigi Bodo	Dynamics of turbulent jets
12:05	Jeremy Harwood	The identification and analysis of radio galaxies in the era of big data
12:25	Aleksandar Shulevski	The life and times of 3C236

12:45 Lunch

14:00 Discussion 1 - Chairs: Geoff Bicknell and Huub Rottgering

### Life cycles of radio galaxies

Chair: Jeremy Harwood

15:00	Monica Orienti (o)	Young radio sources and the life-cycle of the radio emission
15:25	Daniele Dallacasa	Young radio sources: truthful or liar objects?

15:45 Coffee

16:15	Aleksandra Wolowska	Discovery of new radio transients - short-lived radio-loud AGNs
16:35	Joe Callingham	Learning lots about radio galaxy evolution from LoTSS: A low luminosity peaked-spectrum sample
16:55	Marek Jamrozy	Radio and optical properties of extragalactic radio sources with recurrent jet activity.
17:15	Vijay Mahatma	Determining the Age of Radio Galaxies

circa 17:40:00 Drinks

## Tuesday 27 March

### Life cycles of radio galaxies (continue)

Chair: Jeremy Harwood

9:15	Marisa Brienza	Studying the late stages of radio galaxy evolution with LOFAR
9:35	Nika Jurlin	Restarting radio galaxies in the Lockman Hole

09:55 Discussion 2 - Chairs: Chris O'Dea and Judith Croston

10:55 Coffee

### Accretion, triggering and multi-wavelengths

Chair: Wendy Williams

11:15	Clive	Tadhunter (o)	The importance of long-term variability in understanding the radio source population
11:40	Martin	Krause	Powerful radio jets are linked to binary black holes and galaxy mergers
12:00	Dan	Dicken	The dust masses of powerful radio galaxies: clues to the triggering of their activity
12:20	Hannah	Stacey	Extreme dust-obscured star-formation in quasar host galaxies revealed through gravitational lensing

12:40 **Lunch**

13:40	Vanessa	Moss	Connecting HI and soft X-ray absorption in distant AGN with next-generation telescopes
14:00	James	Allison	The cold gas reservoir feeding a distant interacting young radio galaxy
14:20	Barbara	Balmaverde	The MURALES survey: a MUse RAdio Loud Emission lines Snapshot
14:40	Filippo	Maccagni	ALMA observations of AGN fuelling: the case of the young radio source PKS 1718-649

15:00 **Coffee**

15:20 Discussion 3 - Chairs: Stas Shabala and Alessandro Capetti

#### Radio-quiet and weak radio sources

Chair: Beatriz Mingo

16:20	Alessandro	Capetti (o)	Exploring the properties of FR0 radio galaxies
16:45	Preeti	Kharb (o)	A Multi-scale Study of Outflows from Low Luminosity AGN
17:10	Ranieri	Baldi	LeMMINGS: the eMERLIN radio legacy survey of nearby galaxies

17:30 End second day

19:00 **Social dinner**

### Wednesday 28 March

#### Radio-quiet and weak radio sources (continue)

Chair: Beatriz Mingo

9:15	Isabella	Prandoni	The role of AGN feedback in galaxy evolution
9:35	Miranda	Jarvis	Prevalence of radio jets associated with quasar outflows and feedback
9:55	Jonathon	Pierce	Exploring the properties of AGNs with intermediate radio powers

10:15 Discussion 4 - Chairs: Natasha Maddox and Clive Tadhunter

11:15 **Coffee**

#### Jet-environment interaction

Chair: Joe Callingham

11:45	Geoff	Bicknell (o)	AGN Feedback and the Lifecycle of Radio Galaxies
12:10	Giulia	Migliori	A Galactic perspective: (micro)quasar X-ray jets

12:30 **Lunch**

13:30	Dipanjan	Mukherjee (o)	Impact of relativistic jets on the ISM of their host galaxy
13:55	Robert	Schulz	The parsec-scale jet-driven HI outflows in powerful radio galaxies
14:15	Pierre	Guillard	Molecular Gas, Turbulence and Star Formation in and out of Powerful Radio-Galaxies
14:35	Stas	Shabala (on behalf Patrick Yates)	Intermittent jet-mode feedback in hydrodynamical simulations

14:55 Discussion 5 - Chairs: Martin Bourne and Raffaella Morganti

16:00 Final wrap-up

16:30 End of workshop

## Posters

Paola Rossi

MODELLING NON-THERMAL EMISSION FROM RELATIVISTIC MAGNETISED FLOWS IN THE PLUTO CODE

Judith Ineson

Jet environments and energetics, and prospects for finding galaxy groups with new radio surveys

Brendan Webster

Finding low-power radio-loud active galaxies using LOFAR

Magdalena Kunert-Bajraszewska

Radio galaxies with LOFAR: Relic emission from opposites scales

Francesco Santoro

Probing the efficiency of the AGN feedback in young AGN: the case of PKS1934-63