



1-2 March 2023
INAF/IRA Bologna

Contribution ID: 7

Type: **not specified**

Marisa Brienza: New insights into the duty cycle of radio galaxies

Wednesday, 1 March 2023 16:30 (25 minutes)

Jets in active galactic nuclei are episodic in nature, cycling through periods of activity and quiescence. The study of this duty cycle is essential for quantifying their energetic feedback on the host galaxy and surrounding environment, which is a key parameter in galaxy evolution models. However, how this duty cycle varies as a function of e.g. source type, environment, host, is still a matter of debate. In this talk I will present recent results obtained in this field, especially thanks to the advent of new-generation observations at low radio frequencies, which are sensitive to the oldest detectable radio plasma, and I will illustrate the prospects for extending these studies in the coming SKA era.