



1-2 March 2023
INAF/IRA Bologna

Contribution ID: 21

Type: **not specified**

Alessandro Capetti: The quest for high- z radio galaxies

Thursday, 2 March 2023 14:50 (10 minutes)

High redshift radio galaxies (HzRGs) provide unique diagnostic tools about the conditions in the early Universe. While large samples of radio galaxies (RGs) at low redshift ($z < 1$) are available and their properties have been studied in great detail, our knowledge of high redshift RGs is extremely limited: only a few tens of RGs are known. We recently started a project to select HzRGs candidates applying the dropout color technique. We selected flux-limited radio sources from the extragalactic GLEAM catalogue and we searched for the optical counterparts of the radio emission imaged at high resolution in the VLASS survey. We selected u-dropout radio galaxies candidates ($z \sim 3$) from The Kilo-Degree Survey (KiDS) and g-drop candidates ($z \sim 4$) from the Hyper Suprime-Cam Subaru Strategic Program survey (HSC-SSP). We have already obtained observational time at the 3.6 meters New Technology Telescope (NTT) to spectroscopically confirm the u-dropout selected candidates.