Contribution ID: 57 Type: Talk

## The most extreme z>5 AGN uncovered by RACS

Wednesday, 8 May 2024 16:45 (15 minutes)

In this talk I will present what is now the largest statistically complete sample of z>5 radio-powerful AGN currently available. The sample was built starting from the RACS radio survey and its combination with the deepest wide-area optical/NIR survey. It is composed by 32 high-z objects, 15 of which newly discovered by us through dedicated spectroscopic observations. I will also present several application of this sample in different contexts: from statistical studies of the whole sample, aimed at constraining the evolution of these sources in the primordial Universe as well as the degree of obscuration in theses high-z systems, to the detailed multi-wavelength study of individual sources, aimed at constraining the properties of the jets and SMBHs hosted in these extreme systems. Finally, I will also show how future radio surveys performed by SKA and its precursors will allow us to push these studies to unprecedented redshifts.

## keywords

AGN, high-z, survey, multi-wavelength

## In-person or online?

in-person

## Career level

Student

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**Session Classification:** Clusters/LSS & AGN/High-z