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Unveiling the parent population of beamed narrow-line Seyfert 1s

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Narrow-line Seyfert 1 galaxies (NLS1s) are active galactic nuclei (AGN) recently identified as a new class of γ -ray sources. The high energy emission is explained with the presence of a relativistic jet observed at small angles, just like in the two classes of blazars. When the latter are observed at larger angles they appear as radio-galaxies, but an analogue parent population for beamed NLS1s has not been determined yet. In this work we analysed this problem by studying the physical properties of three different samples of parent sources candidates: steep-spectrum radio-loud NLS1s, radio-quiet NLS1s and disk-hosted radio-galaxies. In our approach we first derived black hole mass and Eddington ratio from the optical spectra, then we investigated the interaction between the jet and the narrow-line region from the [O III] $\lambda\lambda$ 4959,5007 lines. Finally, the radio luminosity function allowed us to compare their jet luminosity and hence determine the relations between the samples.

Primary author: BERTON, Marco (University of Padova - Department of Physics and Astronomy "G. Galilei")

Co-authors: Dr FOSCHINI, Luigi (National Institute for Astrophysics - INAF); Dr CIROI, Stefano (University of Padova)

Presenter: BERTON, Marco (University of Padova - Department of Physics and Astronomy "G. Galilei")

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