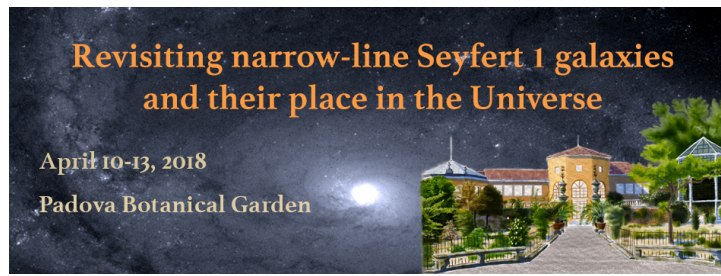


Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe



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Type: Talk

The host galaxies of radio-loud vs. gamma-loud Narrow-Line Seyfert 1s

Friday, 13 April 2018 11:40 (20 minutes)

The production of intense levels of gamma-rays requires a powerful relativistic jet in order to accelerate particles up to the highest energies. In the current AGN paradigm, powerful jets are exclusively launched from elliptical galaxies. We present first results from our near-IR host galaxy imaging survey of radio-loud (but not gamma-ray detected) Narrow-line Seyfert 1 galaxies (NLSy1). With structural modelling and colour information, we characterize their host galaxies, and compare their properties with those of gamma-loud NLSy1s, and high- and low-luminosity blazars (FSRQs and BL Lacs), previously studied by us (Kotilainen et al. 2016; Olguin-Iglesias et al. 2016,2017). This allows us to statistically investigate whether non-bulge dominated, evolutionarily young galaxies are able to launch relativistic jets powerful enough to shine at gamma-rays.

Motivation

Grant

no

Primary author: KOTILAINEN, Jari

Presenter: KOTILAINEN, Jari