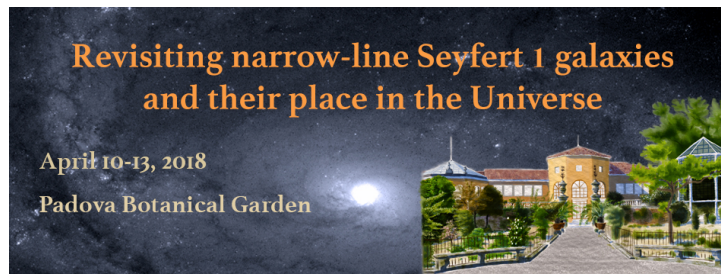


Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe



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The nature of the gamma-ray emitting PKS 2004-447: CSS or NLS1?

Thursday 12 April 2018 10:10 (20 minutes)

PKS 2004-447 has been one of the five radio-loud Narrow-Line Seyfert 1 (NLS1) galaxies that were first discovered to carry a powerful relativistic jet. Despite being the radio-loudest among the original gamma-ray emitting NLS1 sample it is also among the most disputed NLS1s because its classification is not unambiguously clear. We show new results from a large multiwavelength program from radio to gamma-rays spanning more than five years from 2011 until 2017. We studied the longterm broadband spectral evolution of this unique object using a series of spectral energy distributions and parsec-scale resolution VLBI observations. The source continues to be unique among gamma-ray emitting NLS1 and intriguing in comparison to other radio-loud AGN as the multiwavelength data exhibit typical blazar-like characteristics while the radio data reveal a powerful one-sided and a consistent radio spectrum. The radio properties are consistent with CSS sources, a class of radio-loud AGN that is usually associated with young radio sources.

Motivation

Grant

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