Contribution ID: **32**   Type: **Talk**

Invited talk: Radio Properties of Narrow-Line Seyfert 1 Galaxies

Wednesday, 11 April 2018 14:30 (40 minutes)

The last decade has witnessed a flurry of observational studies concerning the rare class of radio loud narrow-line Seyfert 1 galaxies (RL-NLSY1), of which several hundred are currently known. Much of this activity was sparked by the unexpected detection of several RL-NLSY1 by the Fermi gamma-ray observatory in 2009. The flux variability seen in gamma-rays suggested the presence of a powerful, aligned relativistic jet, which has subsequently been confirmed in several cases by VLBA milliarcsecond-scale radio imaging. In this review I discuss several outstanding issues raised by recent pc- and kpc-scale radio observations of RL-NLSY1s. Specifically these involve how low black hole mass, high accretion rate systems can produce powerful jets, the potential for unifying RL-NLSY1s with other AGN types on the basis of orientation, the possible contamination of radio flux in RL-NLSY1s from star formation, and whether these rare objects may represent a young AGN population. I will additionally present updated pc-scale jet kinematics analyses of several RL-NLSY1s from the MOJAVE VLBA monitoring program.

Motivation

Grant

no

Primary authors: LISTER, Matthew (Purdue University);   THE MOJAVE COLLABORATION

Presenter: LISTER, Matthew (Purdue University)