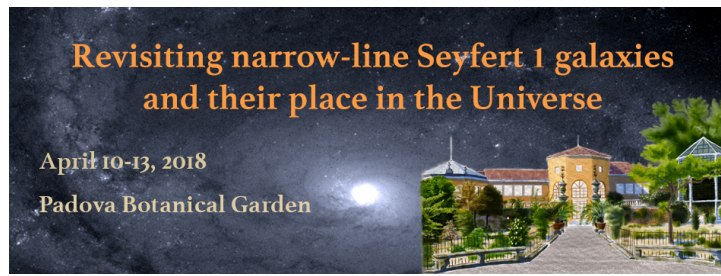


Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe



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Narrow Line Seyfert 1 galaxies in the era of large surveys

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Narrow Line Seyfert 1 (NLSy1) galaxies are a peculiar class of active galactic nuclei (AGN) that show strong Fe II emission, harbor low mass black holes and have high Eddington ratio compared to the broad line Seyfert 1 galaxies. The nature of this class remains unknown as most of the previous studies are limited by the small sample since only 2011 NLSy1 galaxies were known. We have carried out a systematic analysis of sources classified as QSOs in SDSS-DR12. Our systematic study has yielded a new sample of about 11,101 NLSy1 galaxies, a factor of five increase than the previously known NLSy1 galaxies. We have studied multi-wavelength properties of this large sample; radio properties using FIRST, X-ray using ROSAT, optical variability using CRTS and infrared variability using WISE. New findings of these studies will be discussed.

Motivation

This work has been carried out a few months ago but I have recently moved to a new project postdoctoral position which has no funding to support this NLSy1 project.

Grant

yes

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