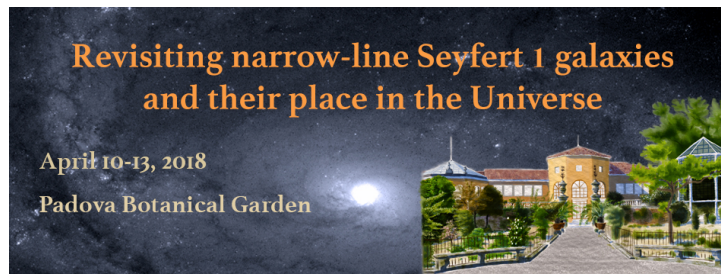


## Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe



Contribution ID: 50

Type: Talk

### A close look at the gamma-ray emitting NLSy1 FBQS J1644+2619

*Wednesday, 11 April 2018 10:30 (20 minutes)*

FBQS J1644+2619 is one of the most recently discovered gamma-ray emitting NLSy1s. In this talk I will present a multiwavelength analysis of this source, focussing on a recent 80 ks X-ray observation with XMM-Newton. The spectral energy distribution of the source is similar to the other gamma-ray NLSy1s, confirming its blazar-like nature. The X-ray spectrum is characterised by a hard photon index ( $\Gamma = 1.66$ ) above 2 keV and a soft excess at lower energies. The hard photon index provides clear evidence that inverse Compton emission from the jet dominates the spectrum, while the soft excess can be explained by a contribution from the underlying Seyfert emission. This contribution can be fitted by reflection of emission from the base of the jet, as well as by Comptonisation in a warm, optically thick corona. I also compare these results with X-ray observations of other gamma-ray NLSy1s. The majority of the sources have similar X-ray spectra, with properties intermediate between blazars and radio-quiet NLSy1s.

#### Motivation

#### Grant

no

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