



Contribution ID: 71

Type: **Talk**

## On the multi-wavelength properties and black hole mass estimation of several Gamma-ray detected NLS1s

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

The RL NLS1s hosting powerful relativistic jets revealed by gamma-ray emissions are very interesting. I report the discoveries of two new such objects SDSS J211852.96-073227.5 with flaring gamma-ray radiation (Hui Yang et al. 2018) and SDSS J122222.55+041315.7 with highest redshift by far (Su Yao et al. 2015a). We discuss their multi-wavelength properties and variability properties, along with the prototype 1H 0324+342 (Su Yao et al. 2015b). Moreover, we also present independent estimation on the black hole (BH) mass of the RL NLS1 1H 0324+342 using the X-ray timing method. We find a low BH mass of  $10^7 M_{\text{sun}}$ , which is consistent with that derived from the virial method using the optical broad emission lines.

### Motivation

### Grant

**Primary author:** Mr YANG, Hui (National Astronomical Observatories, Chinese Academy of Sciences)

**Co-authors:** Dr YAO, Su (Kavli Institute for Astronomy and Astrophysics, Peking University); Dr YUAN, Weimin (National Astronomical Observatories, Chinese Academy of Sciences); Dr PAN, Hai-Wu (National Astronomical Observatories, Chinese Academy of Sciences); KOMOSSA, S. (MPIfR)

**Presenter:** Mr YANG, Hui (National Astronomical Observatories, Chinese Academy of Sciences)