

What's got Mrk 335 so Low?

Maiti McGrath, Saint Mary's University

Supervisor(s): Gallo, Luigi

The current model describing Active Galactic Nuclei (AGN) include a supermassive black hole actively accreting material. The accreted material and surrounding areas emit approximately evenly across the electromagnetic spectrum. Mrk 335 has been observed dimming significantly in the X-ray region, but the UV and optical emission do not show the same dimming. Through use of the spectral energy distribution (SED), the X-ray dimming over time is shown to lower the bolometric luminosity. The yearly SEDs that we were able to create show the changes over long and short timescales. These SEDs were then modelled using multi-wavelength data, and using the parameters from the modelling process we are looking to find the driving force of the changes within the SED.