

Contributed Talk

Splinter AGN

LINE PROFILE VARIATIONS IN THE CHANGING LOOK AGN
HE 1136-2304

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In the center of active galactic nuclei (AGN) reside supermassive black holes surrounded by broad emission line regions (BLR).

The AGN HE 1136-2304 was classified as a Seyfert 1.95 galaxy by the Hamburg ESO Survey in 1993. In June 2014, the XMM-Newton slew survey found an increase in the X-ray flux by a factor of more than ten compared with the flux it had in the ROSAT all-sky survey in 1990.

An ensuing optical spectrum, taken in July 2014 with the SALT telescope, shows greatly increased broad line emission which qualified HE 1136-2304 as a Seyfert 1.5 AGN. To investigate in the BLR of this changing look AGN a optical variability campaign was carried out in the years 2014/2015. HE 1136-2304 shows a common BLR where the distance from the H β -emitting region to the ionizing source is about 10 light days.