

Polarization in broad spectral lines of active galaxies: perspectives

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The polarization in the broad emission lines of active galactic nuclei (AGNs) is connected with light scatter on the dust which is in the form of dusty torus. This equatorial scattering in combination with Keplerian motion of the line emission gas can be used for the black hole mass measurements (see Afanasiev & Popovic 2015), but also for investigation of the geometry of broad line region (BLR). Here we give a short overview of the perspective to use the polarization in the broad emission lines for investigation of the central part of AGNs.

References

Afanasiev, V. L., & Popović, L. Č. (2015). Polarization in lines—a new method for measuring black hole masses in active galaxies. *The Astrophysical Journal Letters*, 800(2), L35.