

POLARIZATION OF ACTIVE GALACTIC NUCLEI AND GRAVITATIONAL LENSED OBJECTS

LUKA Č. POPOVIĆ

*Astronomical Observatory, Volgina 7, 11000 Belgrade, Serbia,
lpopovic@aob.rs
Faculty of Mathematics, University of Belgrade, Studentski trg 16, 11000
Belgrade, Serbia*

ABSTRACT

Polarization of Active Galactic Nuclei and Gravitational Lensed Objects: Polarization in the UV/optical spectra of Active Galactic Nuclei (AGNs) depends on the geometry of the innermost region but also on the different polarization mechanisms that are effective in the central region (accretion disk and Broad Line Region—BLR) of an AGN. The polarization can be caused by scattering material located around the accretion disk of a supermassive black hole, which is also important. Therefore, the AGN polarization measurements can indicate the geometry of the different emitting regions, especially the Broad Line Region (BLR), but also the mechanism of polarization in AGNs. On the other side, the polarization of the gravitationally lensed AGN (GL AGN) can also be observed and can be used for investigation of the inner structure of these objects. In this presentation we discuss the effect of polarization in AGNs and GL AGNs.