

RELATIVE DEVIATION OF QSO SPECTRA INDUCED BY THE MICROLENSING ON DIFFUSIVE MASSIVE SUBSTRUCTURE

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The small mass structures dispersed throughout the galaxies are perfect candidates for gravitational lensing on milli and micro scale. The aim of this paper is to investigate this effect and present the results as a relative deviation of spectra during the milli/microlensing event. We take the QSO as a distant source where most of the radiation comes from the accretion disc surrounding the AGN core. We observe the emitting radiation in the narrow region from infrared toward the hard UV band, separated in four emitting bands, U, B, V and R. We calculate the ratio of observed flux with and without lens influence and present it as the relative deviation in different bands. That allow us to explore conditions when the spectra deviation is most significant. We conclude that microlens directly influence the magnification of the observed object, but also its position, which could be characterized in a form of centroid shift.