

Microlensing Towards the Galactic Centre with OGLE

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Abstract: OGLE survey, now in its fourth phase, has been monitoring the Galactic Centre for nearly 20 years. Since the third phase of the project (2001-2009) the significant fraction of the sky around the Bulge was covered extensively what allows for finding microlensing events originating from a range of galactic longitudes and latitudes thus regions where the microlensing optical depth varies significantly. The largest ever sample of detected events (few thousands) allows for obtaining for the first time a map of the optical depth, which then can be compared with the synthetic maps generated for various models of the Galaxy. We present the unpublished results covering years 2001-2005 and preliminary results for the entire OGLE-III dataset.