

Recent Development of Theoretical Studies in Gravitational Microlensing

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In this talk, I will present my recent studies about microlensing. These include extracting additional information from the astrometric observations of microlensing events, using binary lens events to detect very close binaries, and the development of analytic formalism for blending effect in lensing observation. The talk will be composed of brief introduction to microlensing and the experiments to detect them, current status of the experiments, problems in lensing result interpretation, newly proposed method to improve the lensing result analysis, and additional information from the proposed methods.