

Galactic disk microlensing by LSST

Abstract:

Upcoming LSST survey gives an unprecedented opportunity for studying populations of intrinsically faint objects using microlensing technique. Large field of view and aperture allow effective time-series observations of many stars in Galactic disk and bulge. In this regard, we combine Galactic models (for $|b| < 10^{\text{rm}\{\circ\}}$) and simulations of LSST observations to study how different observing strategies affect the number and properties of microlensing events detected by LSST.