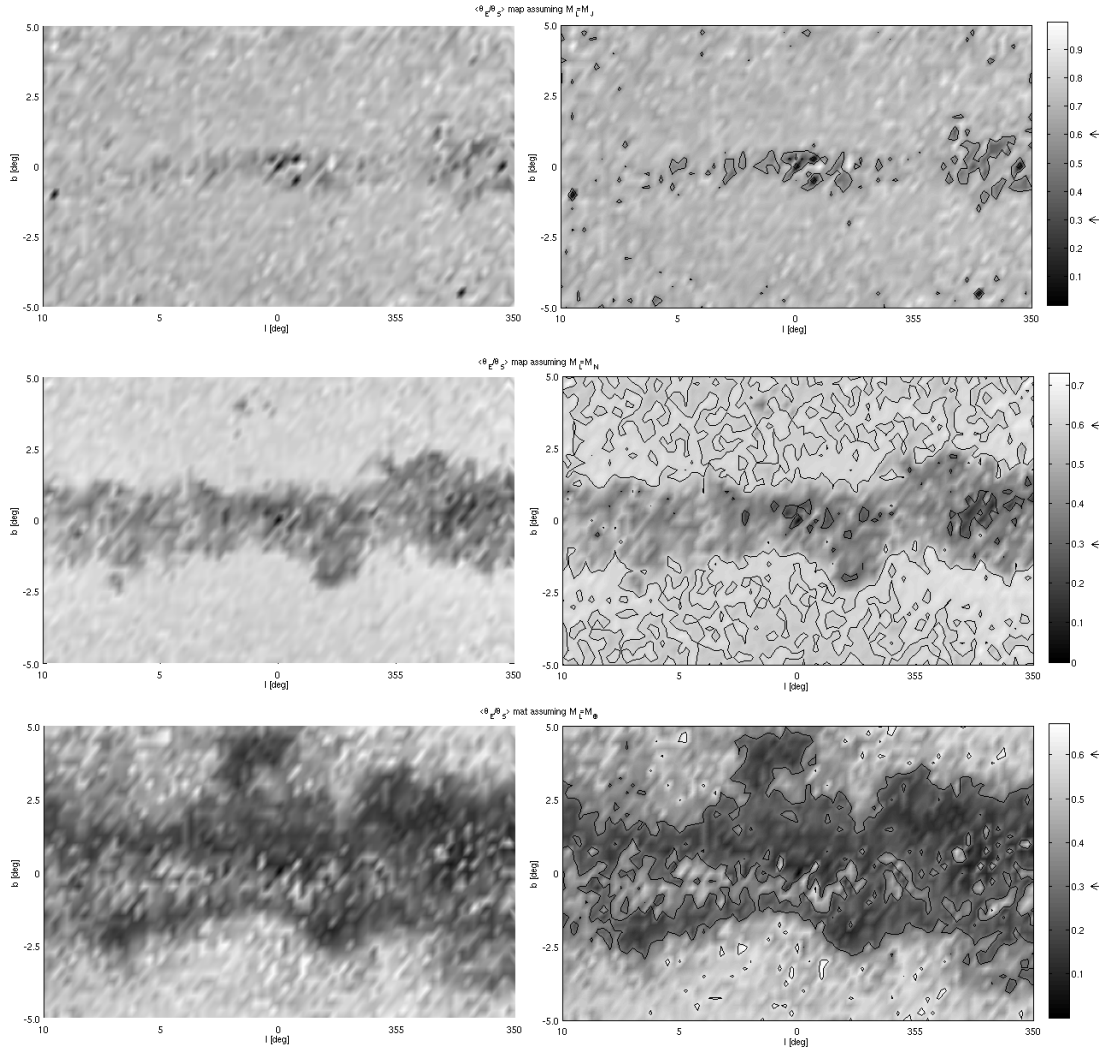


Microlensing Effect with Planet-mass Lens

by Makiko "Sherwin" Ban, PhD Student

- Looking at the Galactic bulge
- Assuming the lens mass as M_{\oplus} , M_{Ψ} , M_{\oplus}
- Assuming angular radius of Einstein ring (θ_E) < angular radius of a source star (θ_S)



+ Average ratio of radius shows almost the same image as the Galactic centre taken by telescope

+ Smaller ratio briefly reflects the stellar population

+ Smaller lens mass provides small ratio more frequently

+ A crack-like image at 0° latitude in M_{\oplus} map might be from arms laying between the Galactic centre and the Sun
(The crack can be seen very slightly in M_{Ψ} map)