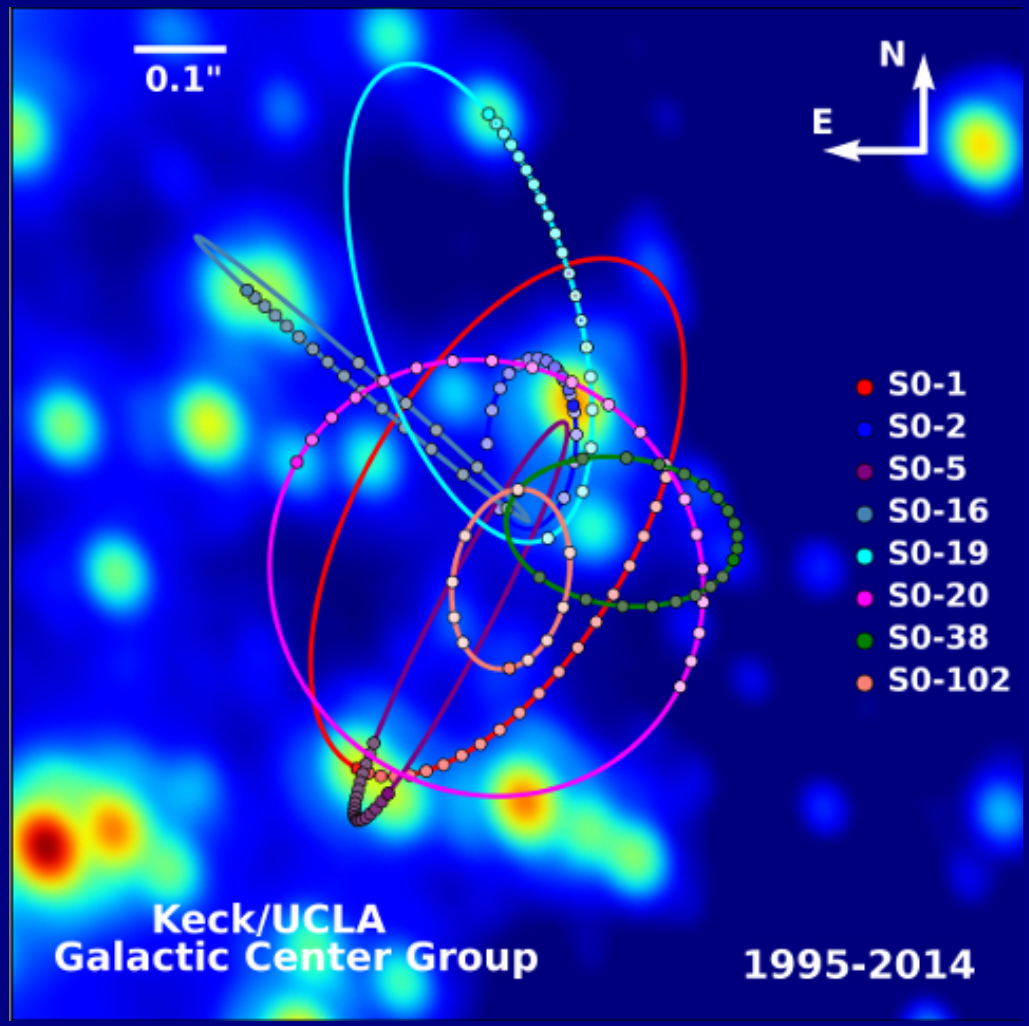
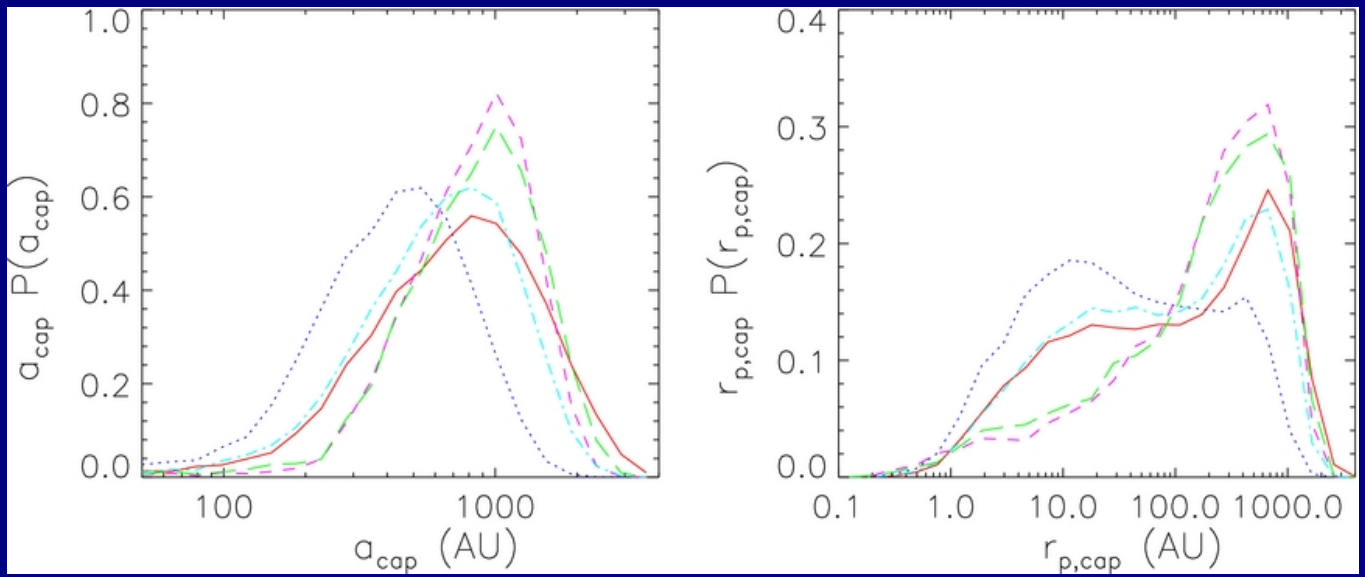
# Galactic-centre Pulsars as Mass Tracers

# The Galactic-centre Environment



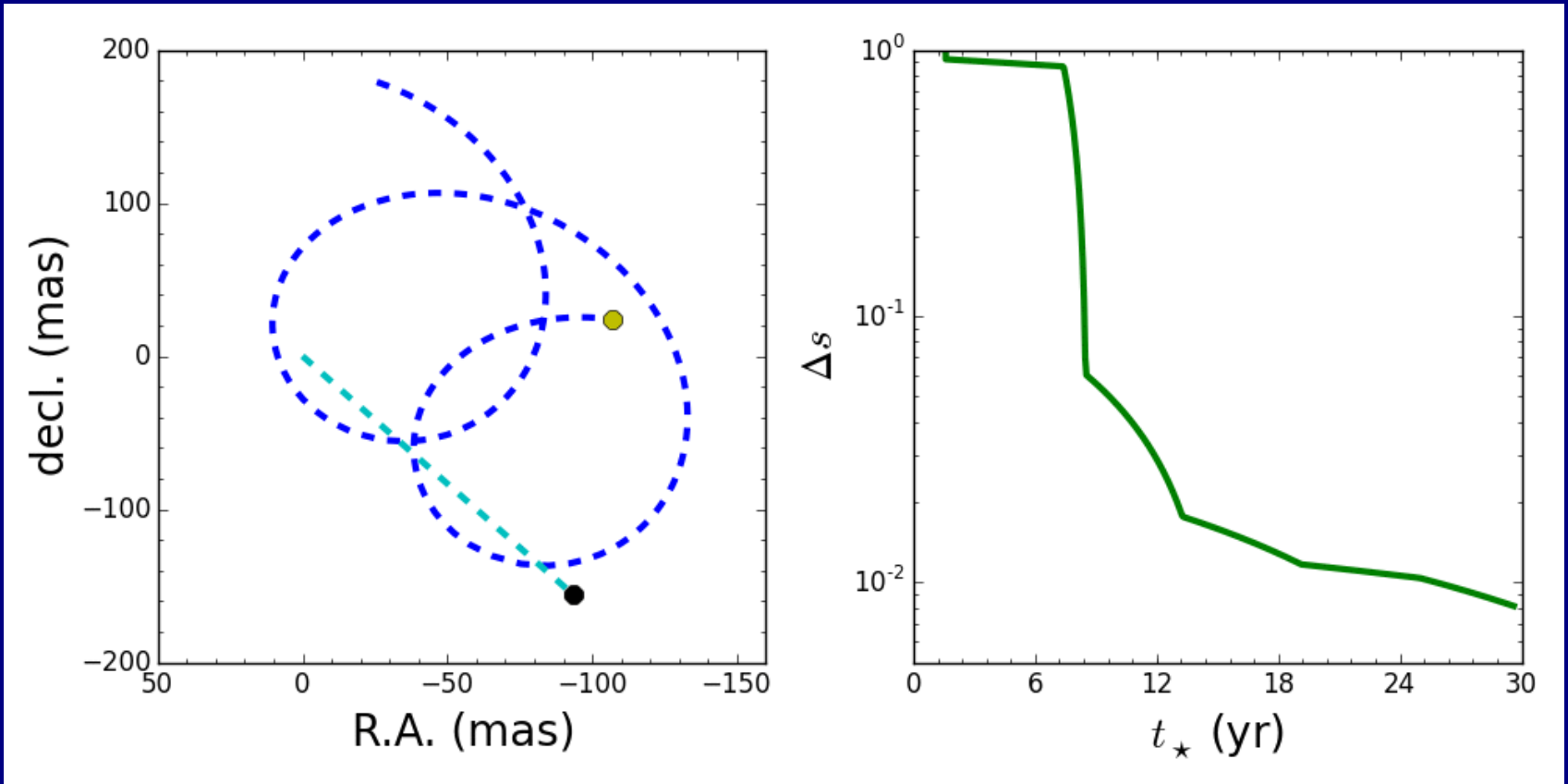

$0.1'' \simeq 1000\,\mathrm{AU}$

# Pulsar Expectation




Zhang et al. (2014)

# Black-hole Spin Constraint




Assumed $\sigma_{\mathrm{T}} = 5\,\mathrm{ms}$ and $\sigma_{\mathrm{p}} = 10\,\mu\mathrm{as}$ (Fupeng Zhang & PS 2017)

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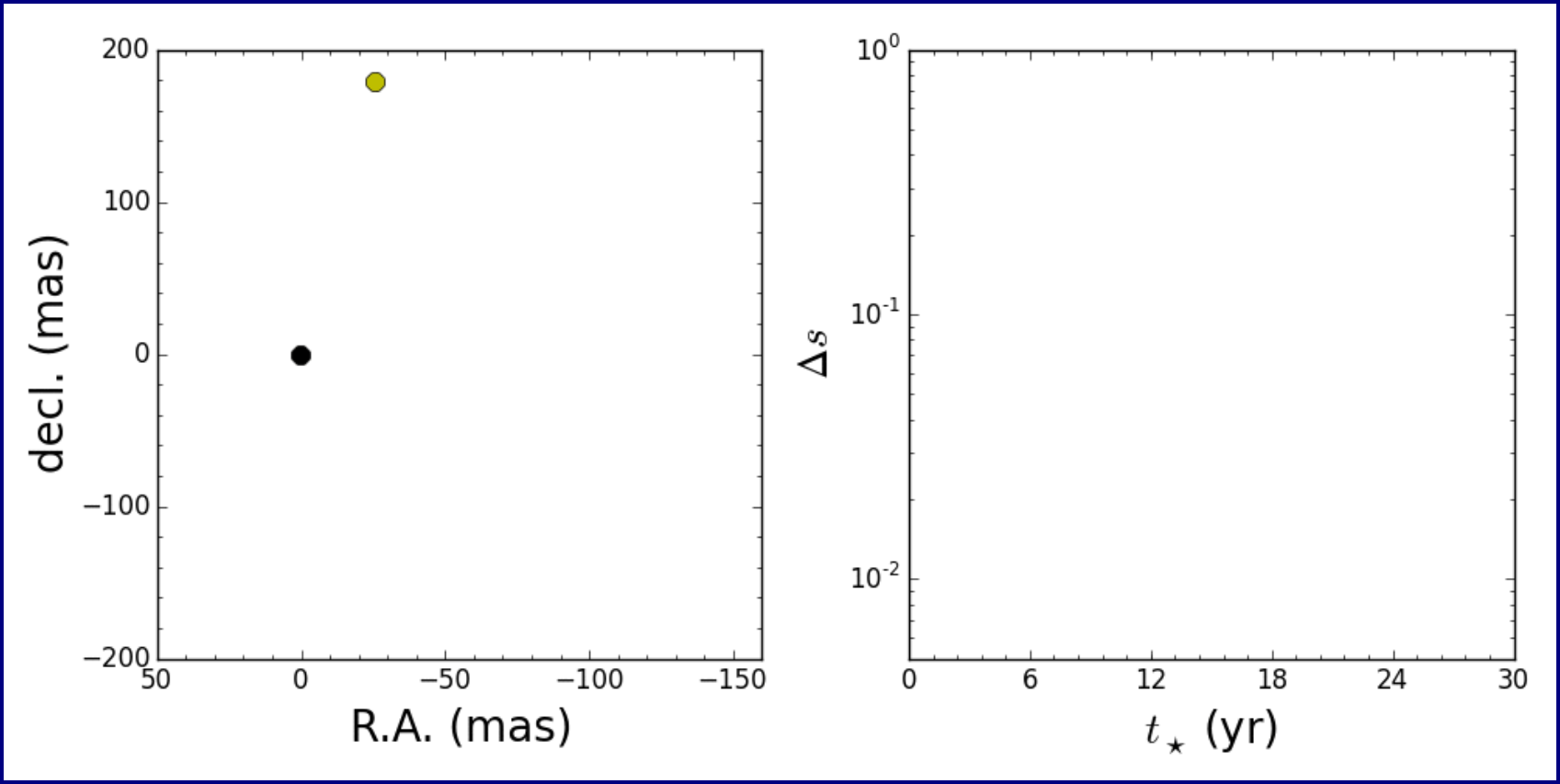


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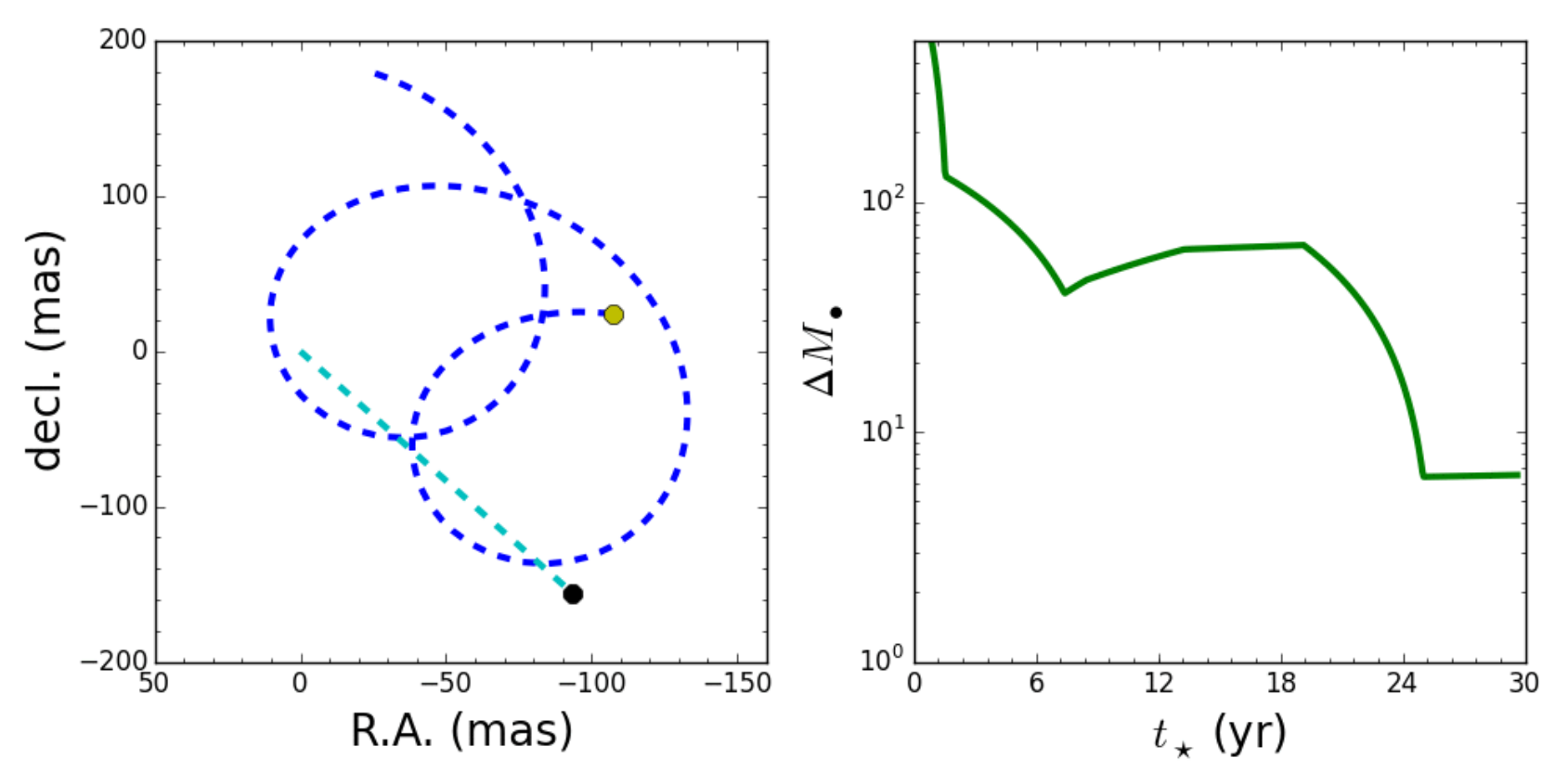
# Mass Constraint

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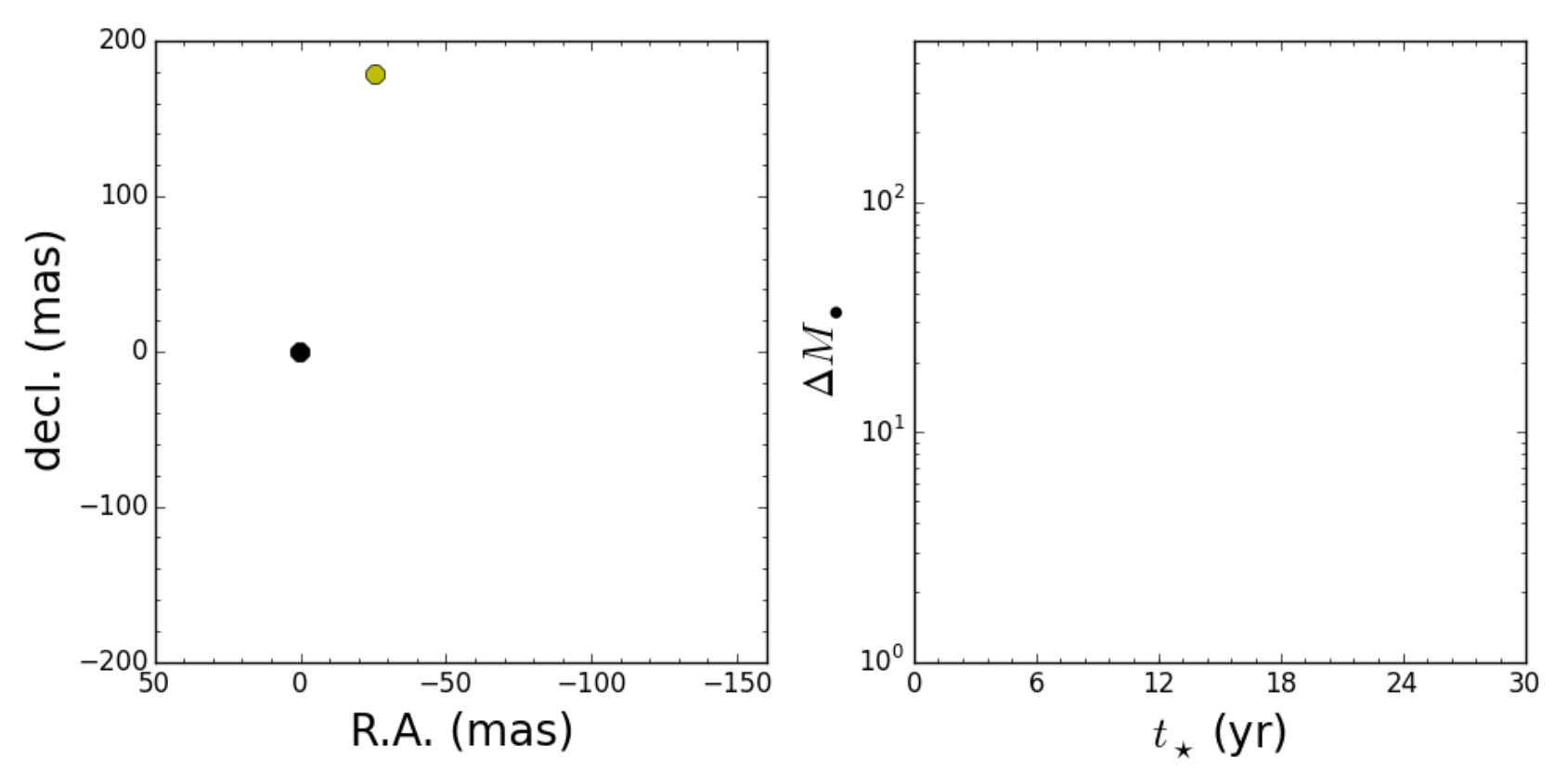
# Mass Constraint

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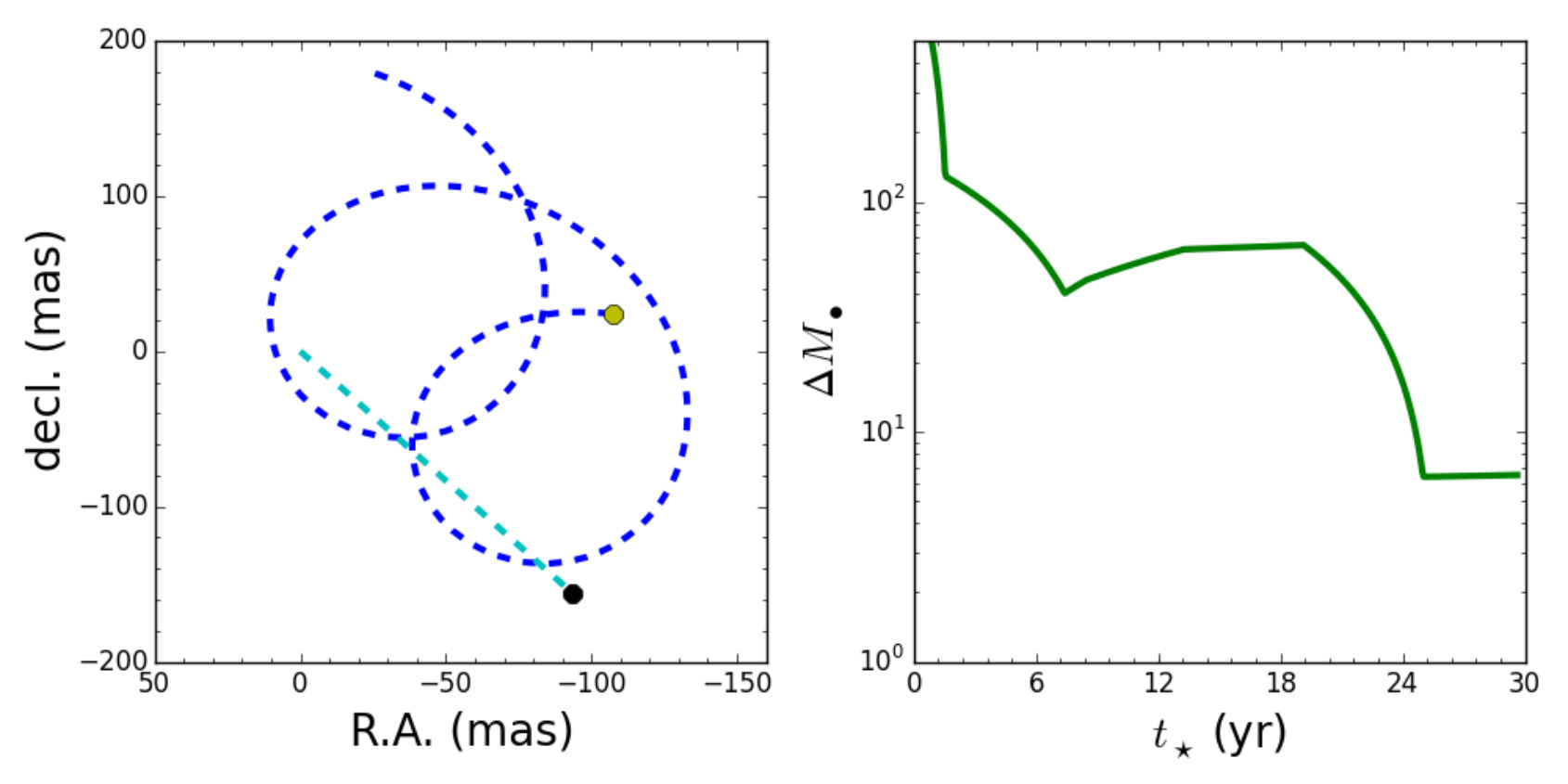


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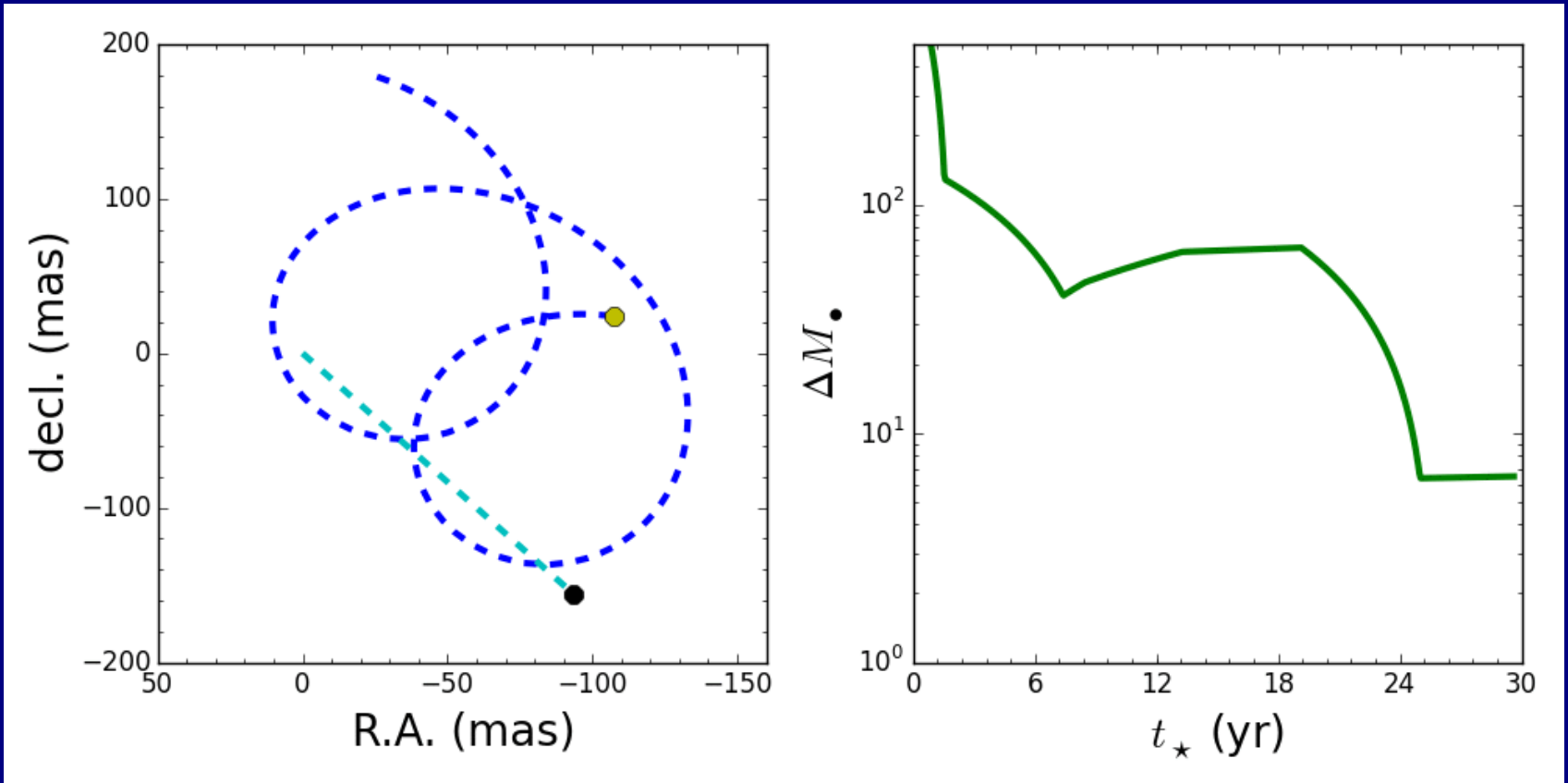


What dark-matter core/cusp is predicted?