

# Weaving Dreams in the Dark

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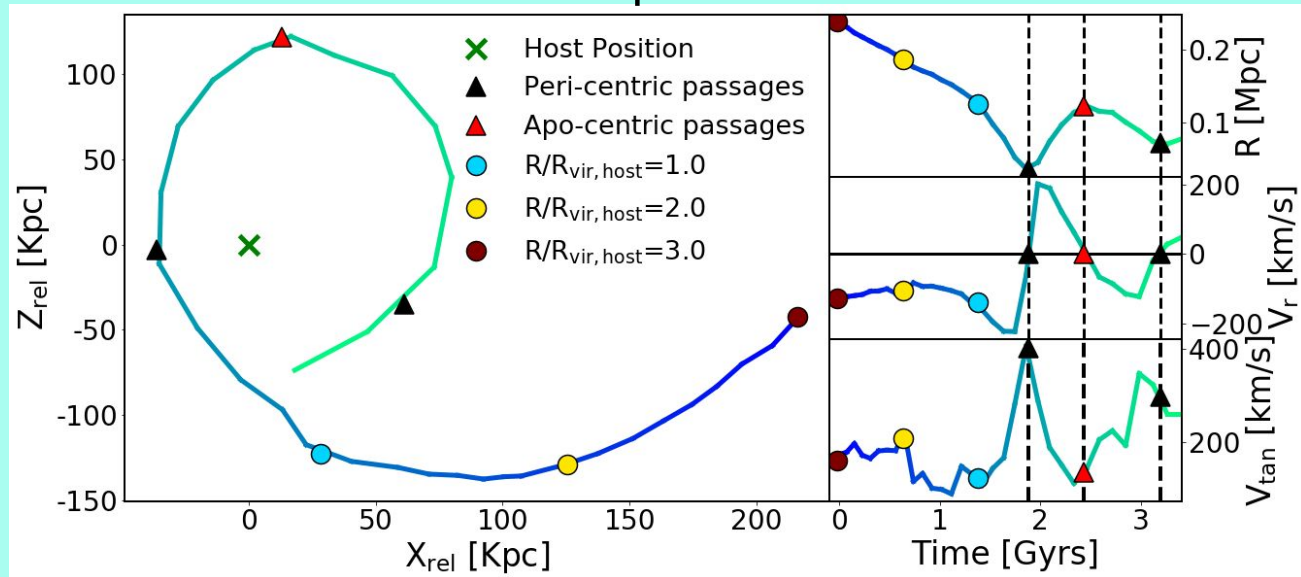
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**Aim: To investigate the robustness of Merger Timescale predictions for satellite galaxies in Semi Analytical Models**

- Use high resolution and cadence N-body simulation
- Halos: VELOCraptor
- Trees: TreeFrog
- Orbital extraction tool: **ORBWEAVER**

An example orbit:



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## Merger timescale prescription:

- Jiang et al. 2008

## Results

- Merger timescale over predicts the lifetime for small galaxies
- Another mechanism causing orbital decay

