

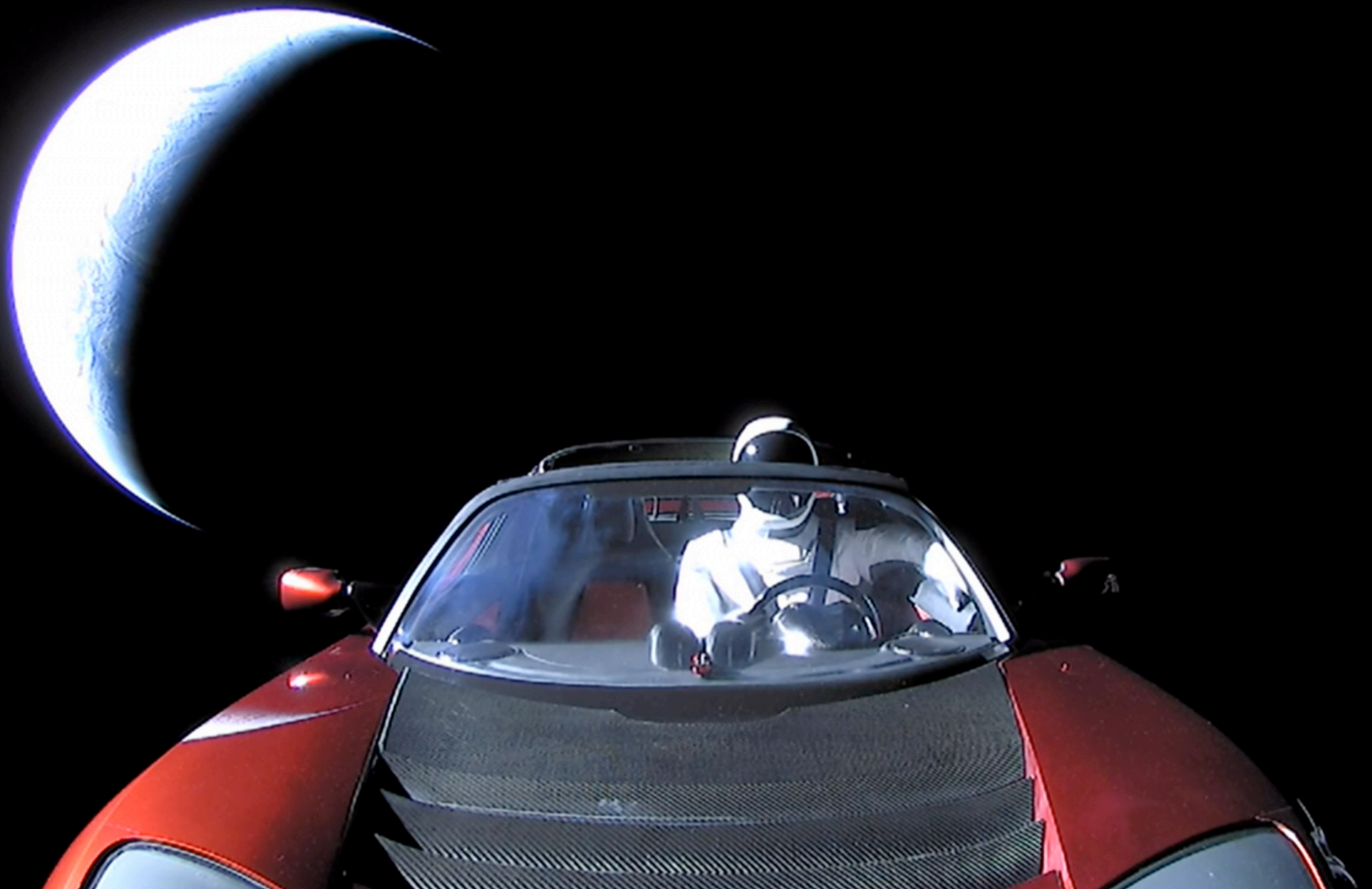
# Gravity

$$\ddot{\mathbf{r}}_i = \sum_{\substack{j=1 \\ j \neq i}}^N m_j \frac{\mathbf{r}_j - \mathbf{r}_i}{|\mathbf{r}_j - \mathbf{r}_i|^3}$$

# Falcon Heavy Launch









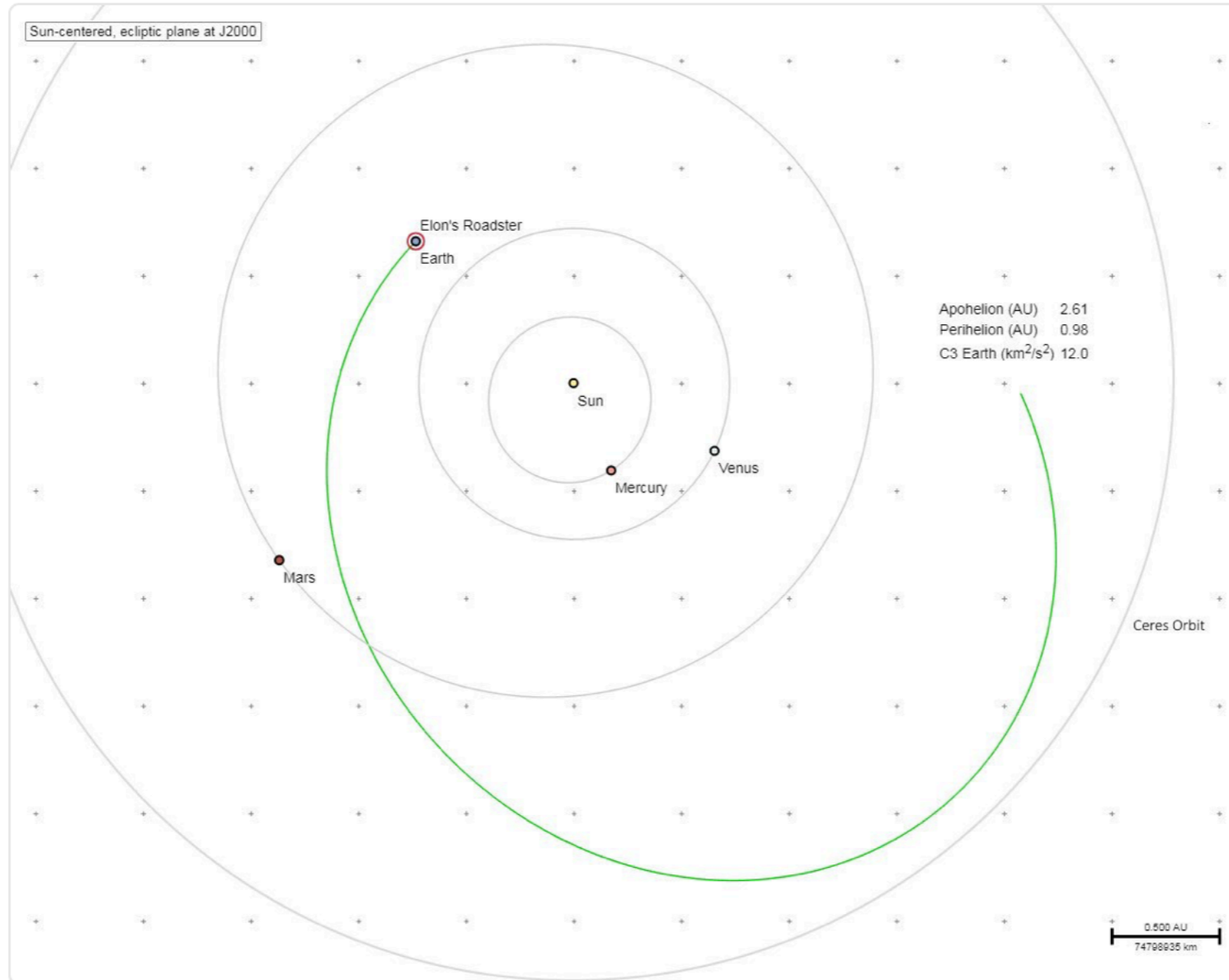
**Elon Musk** ✓

@elonmusk

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Third burn successful. Exceeded Mars orbit and kept going to the Asteroid Belt.



10:46 PM - 6 Feb 2018

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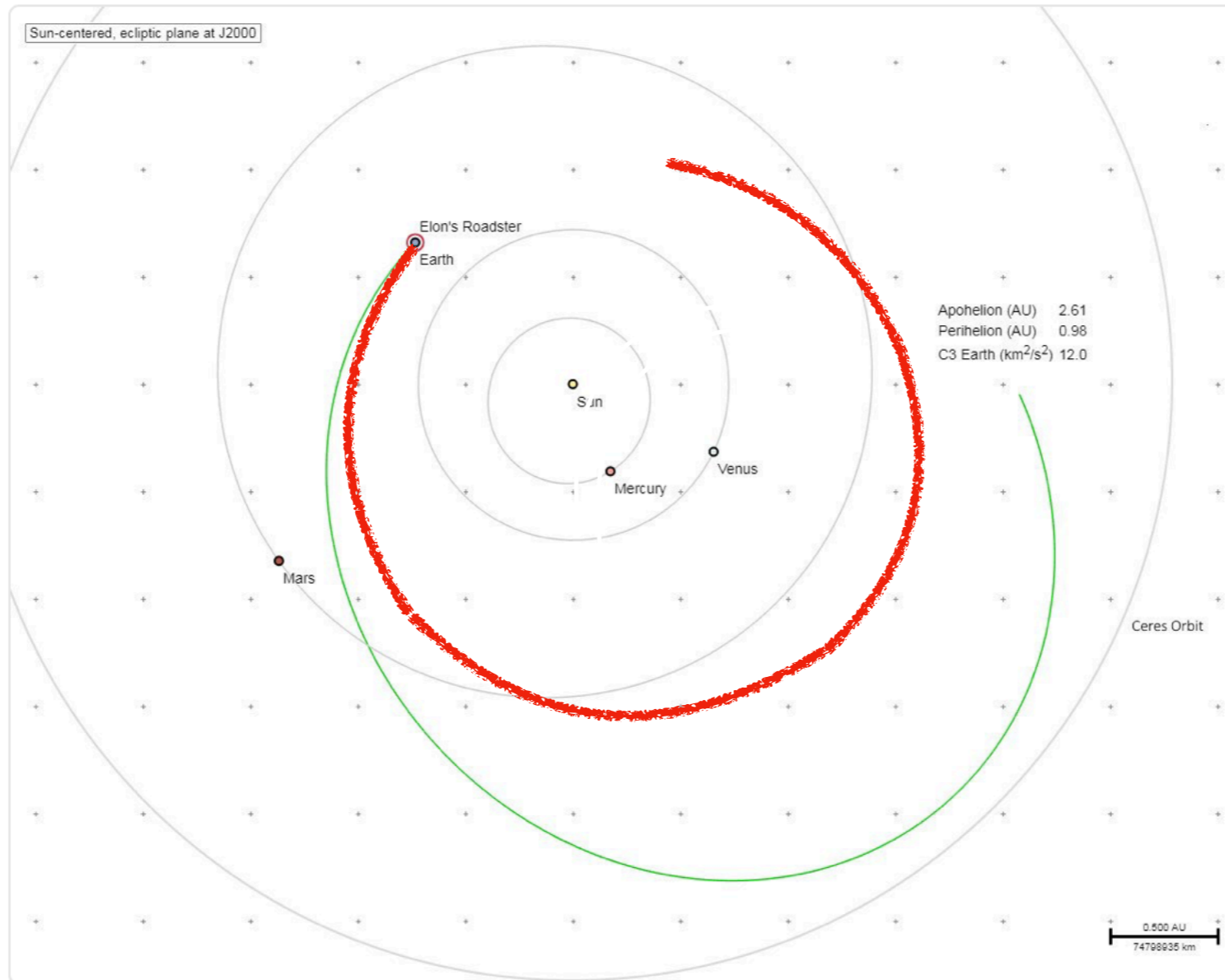
**Elon Musk** ✓

@elonmusk

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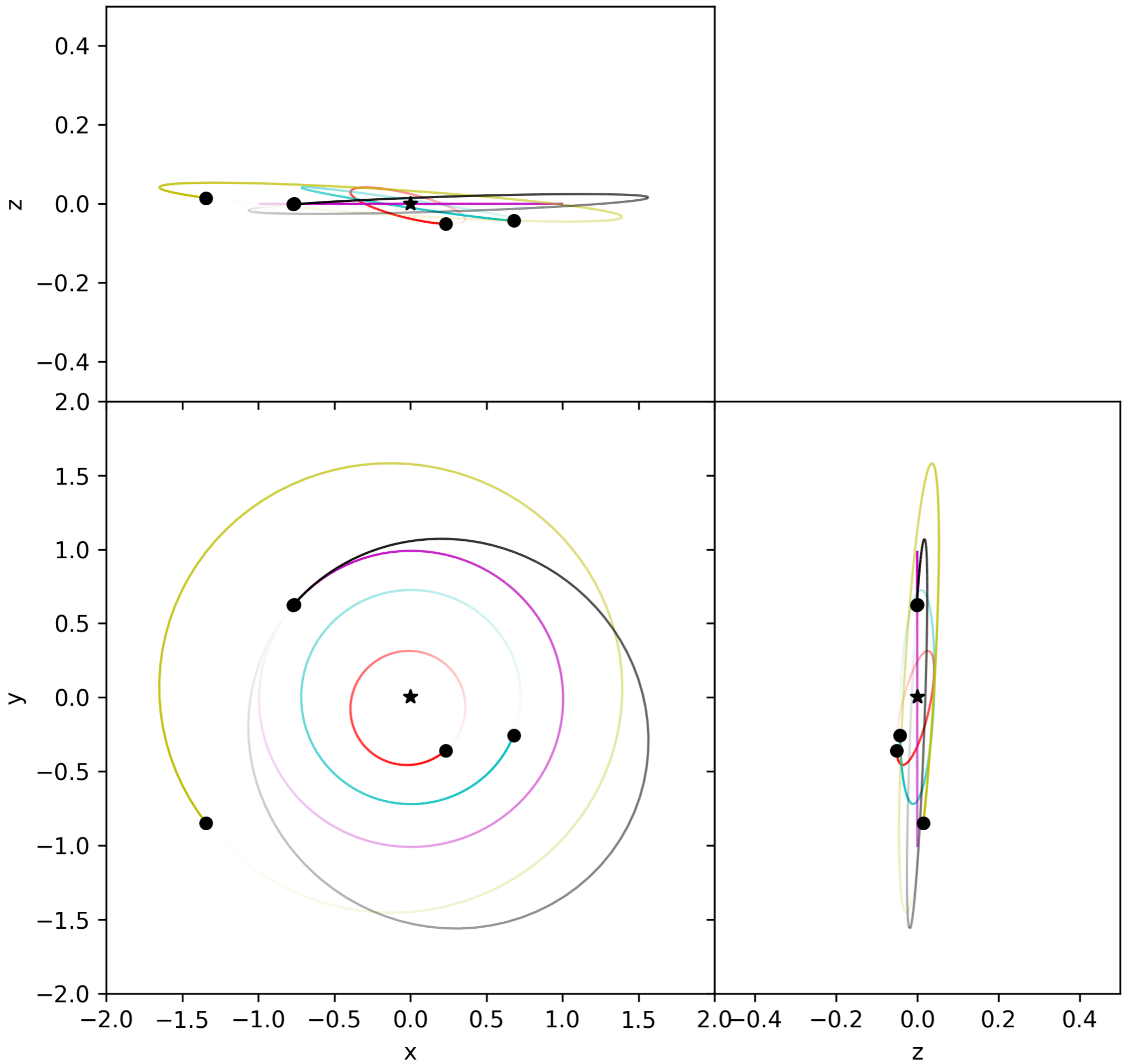
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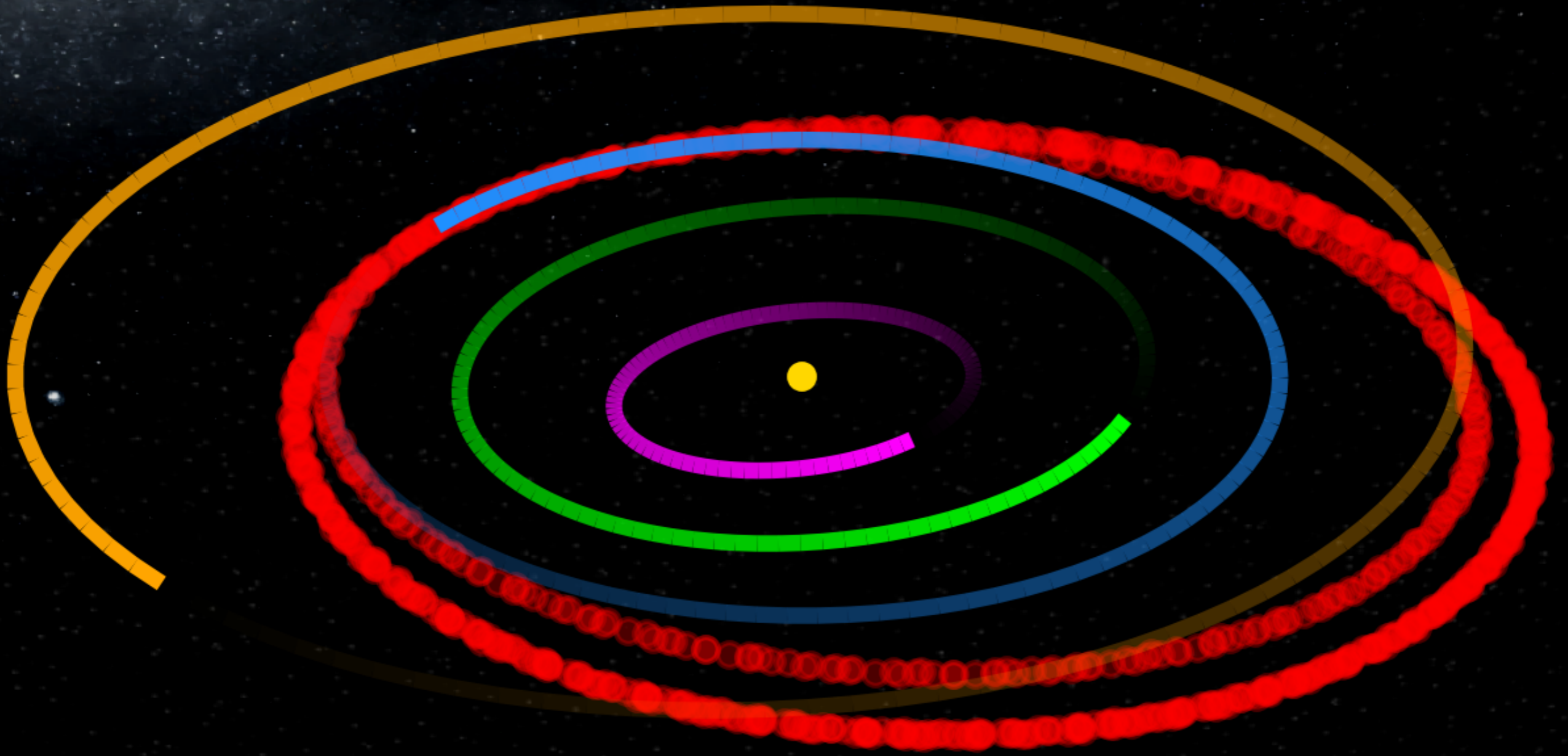
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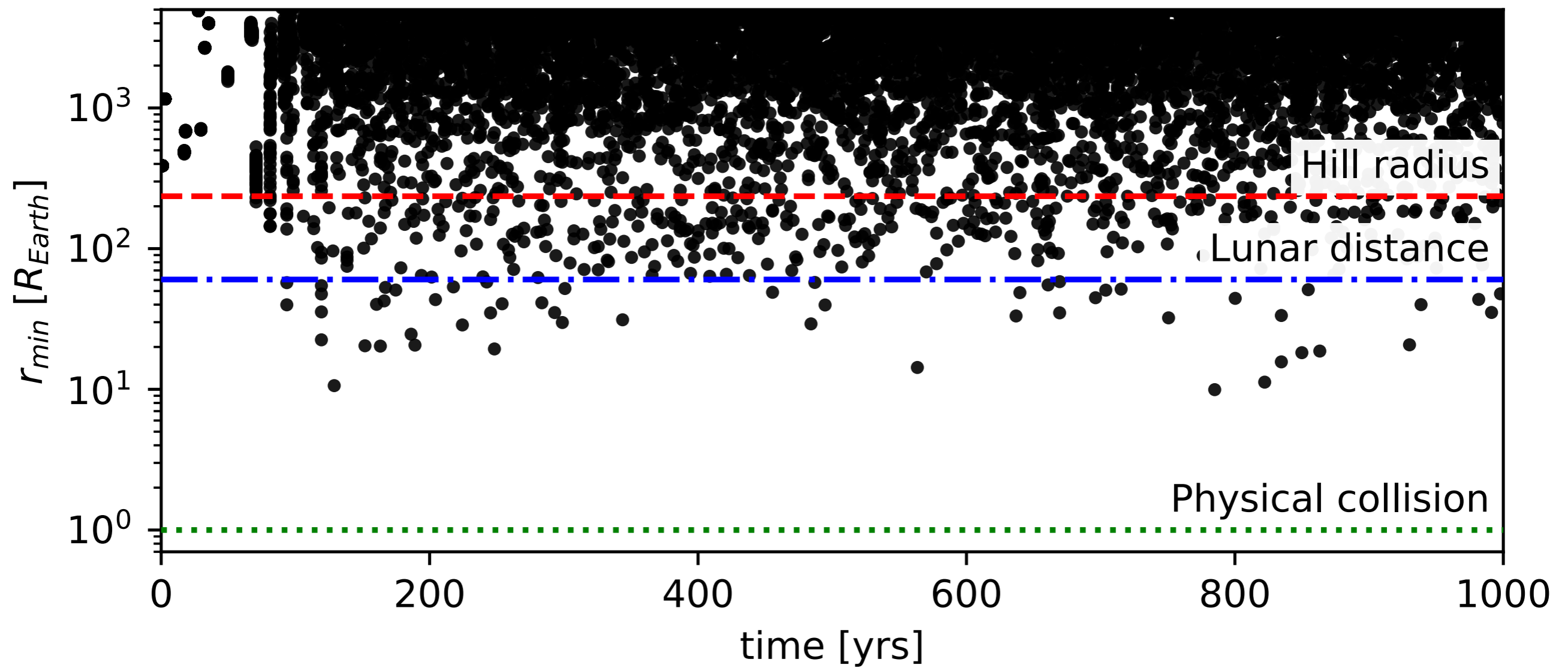


# First 100 Years

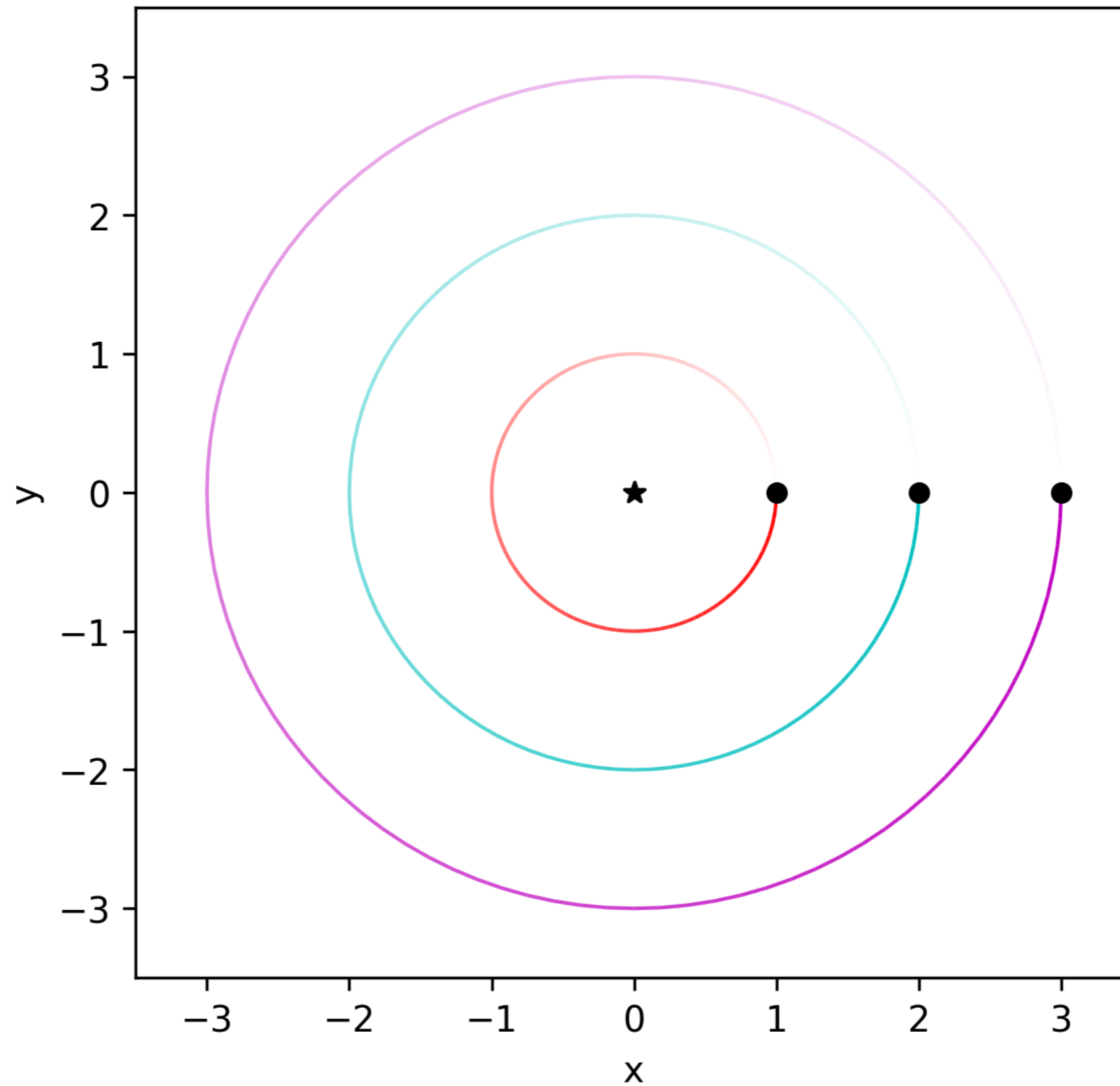




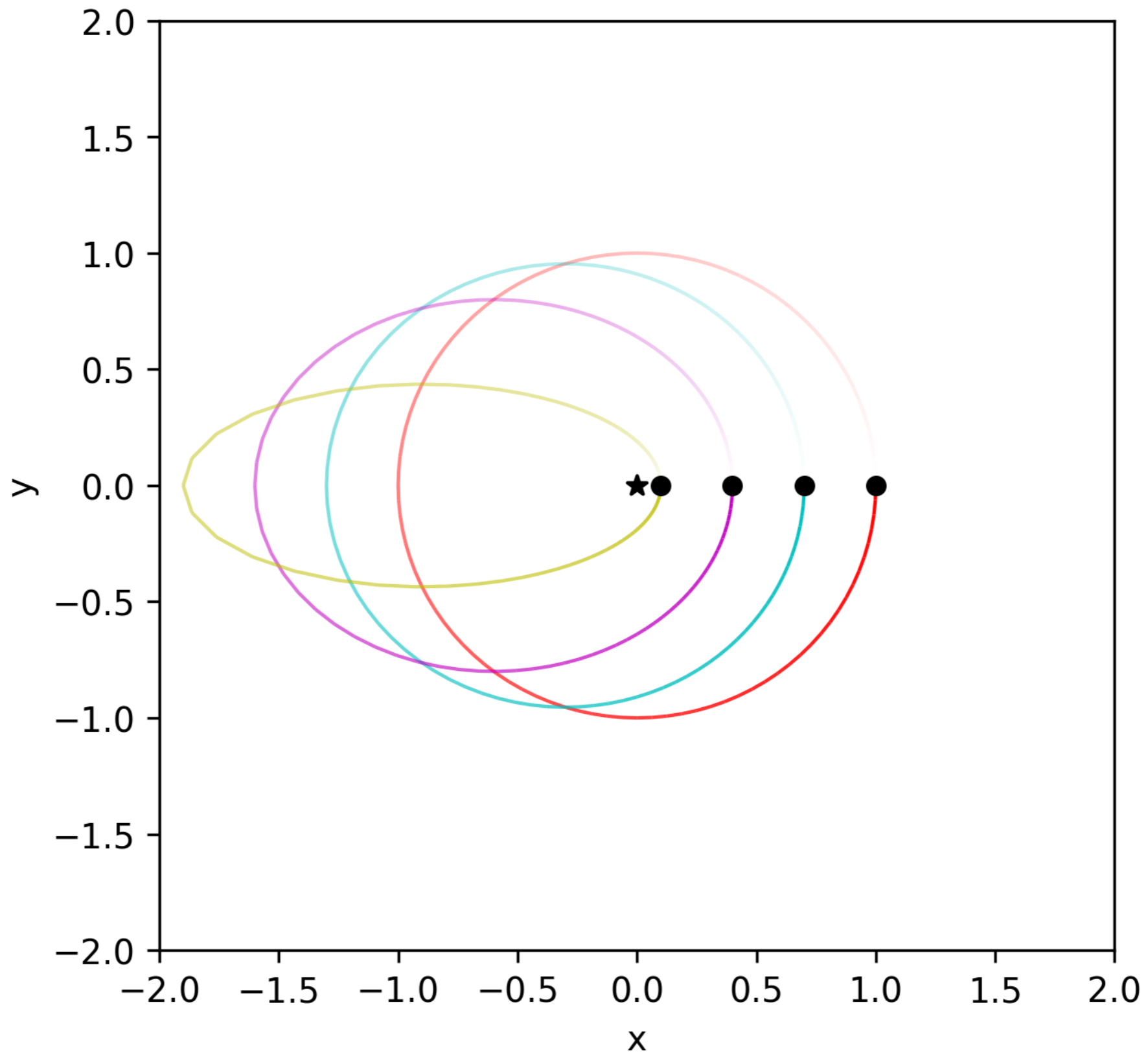
# First 1000 years



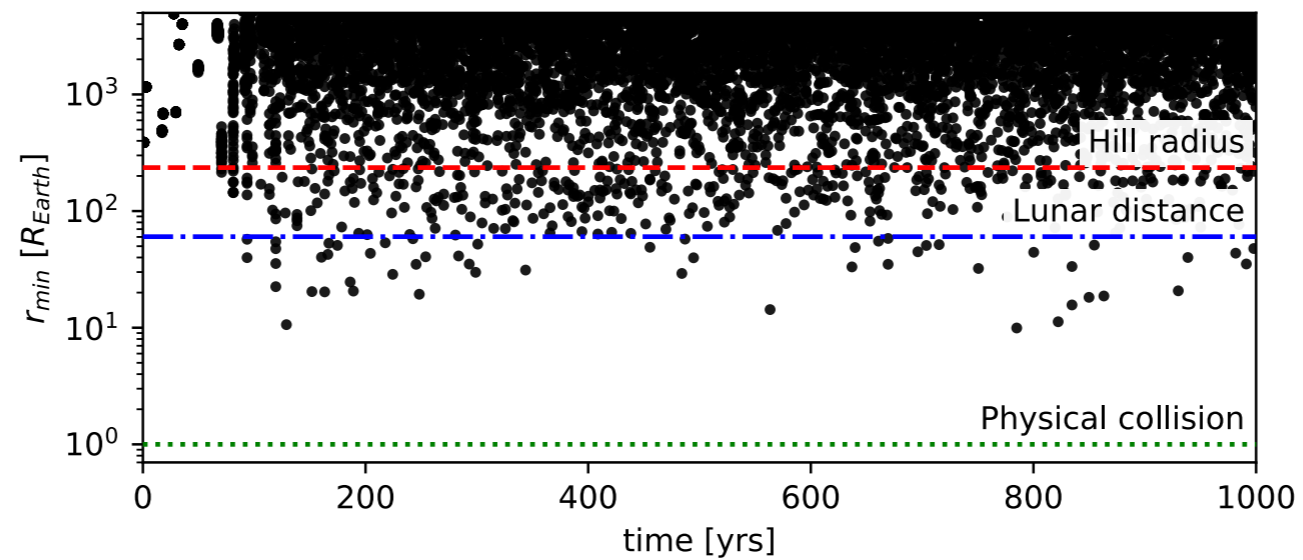
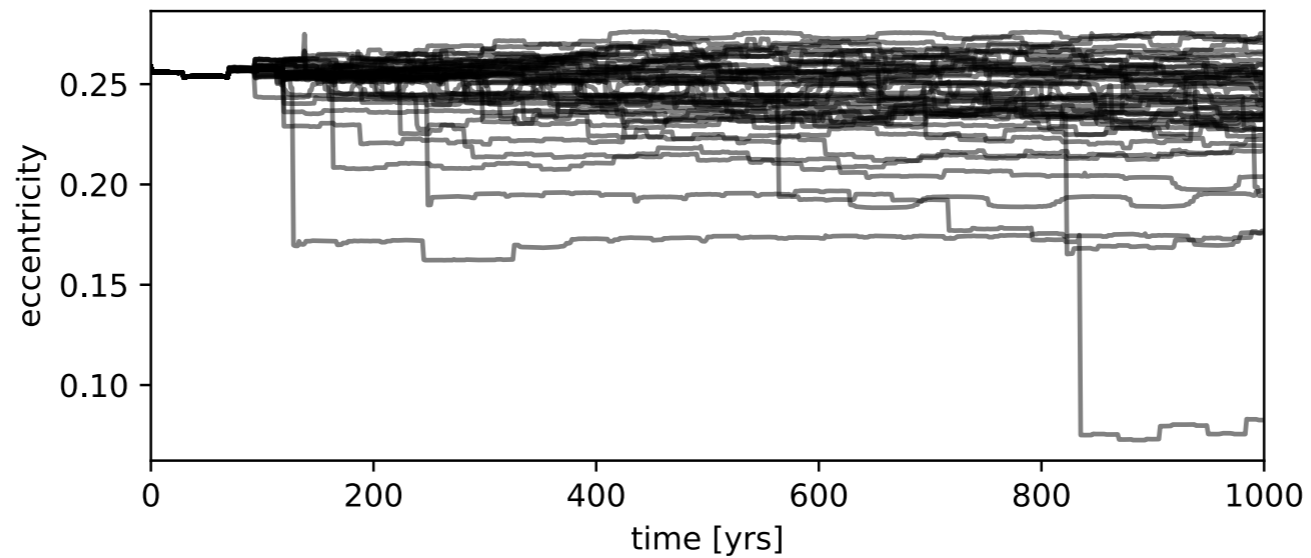
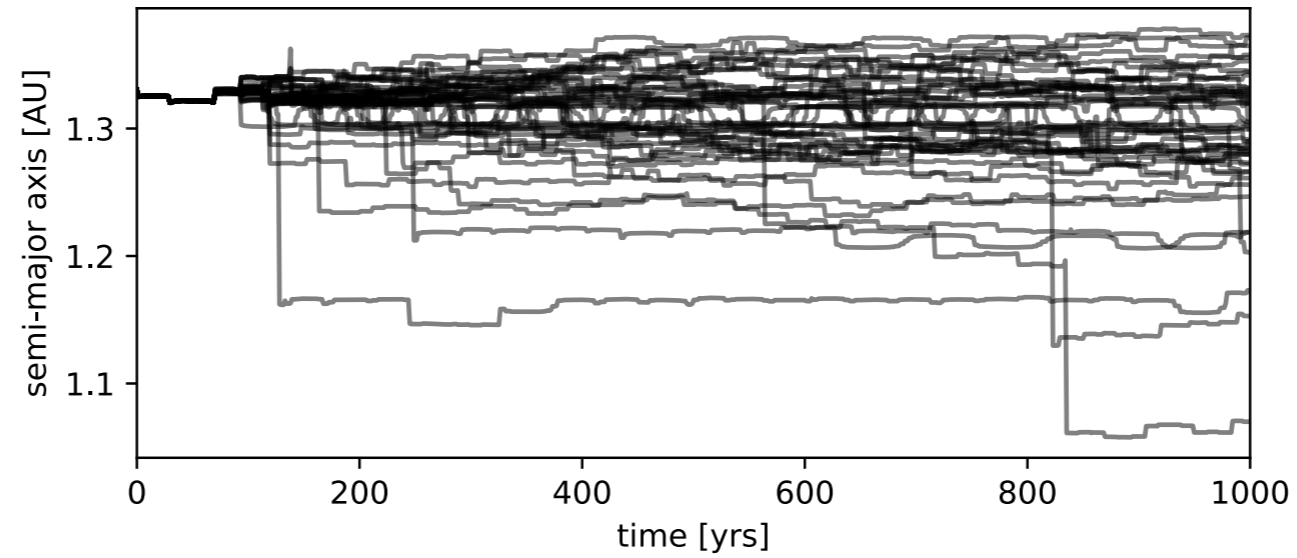
# Semi-major axis



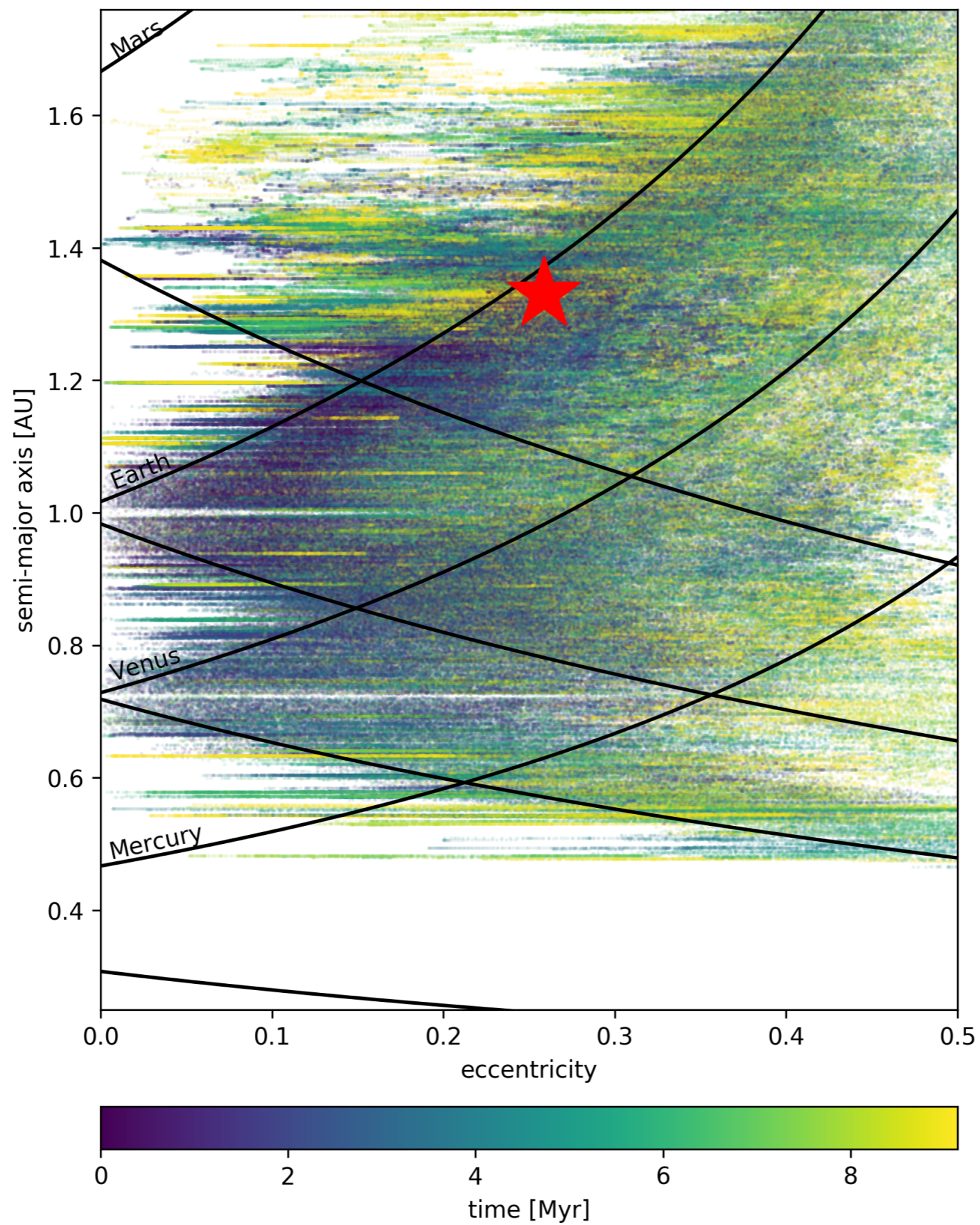
# Eccentricity



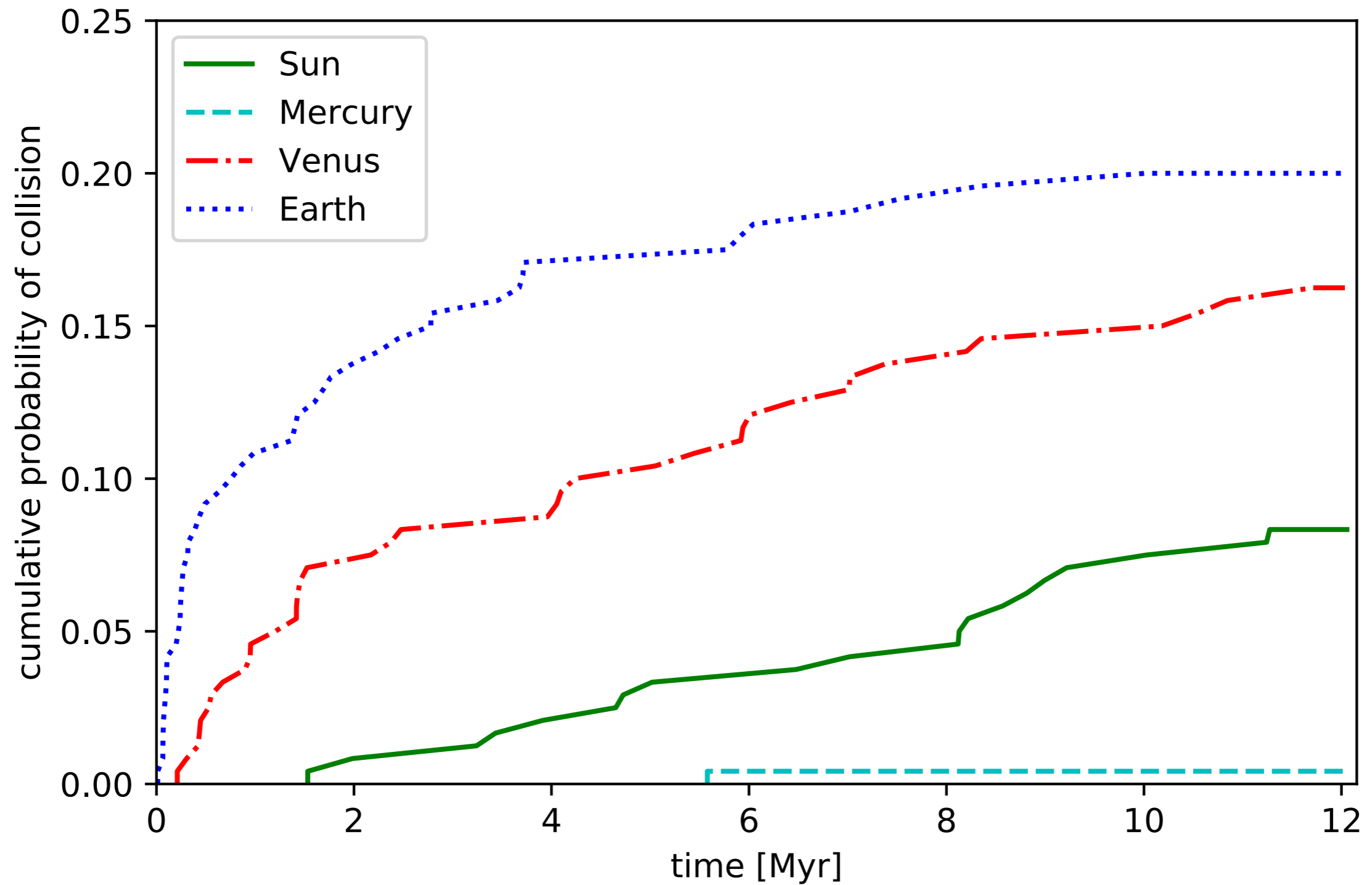
# First 1000 years



# First 9 million years



# Collisions with Planets and the Sun



# Stability of the Solar System

