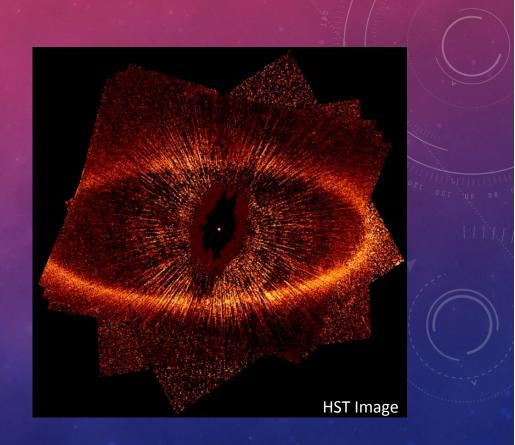


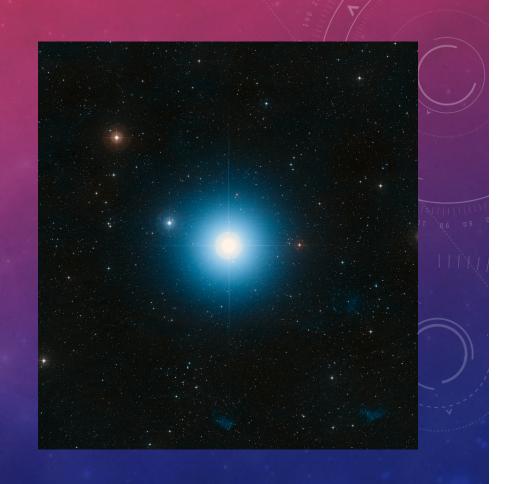


- Why are we interested in Fomalhaut's ring?
 - Eccentricity of 0.1
- Planetary Detection
 - Observe Eccentricity
 - Evidence for Planet



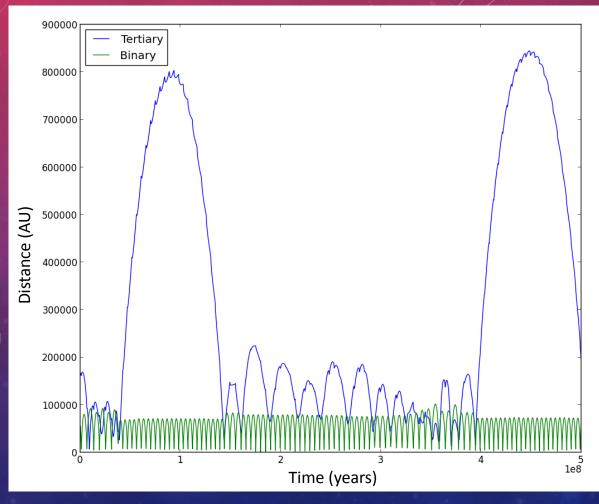


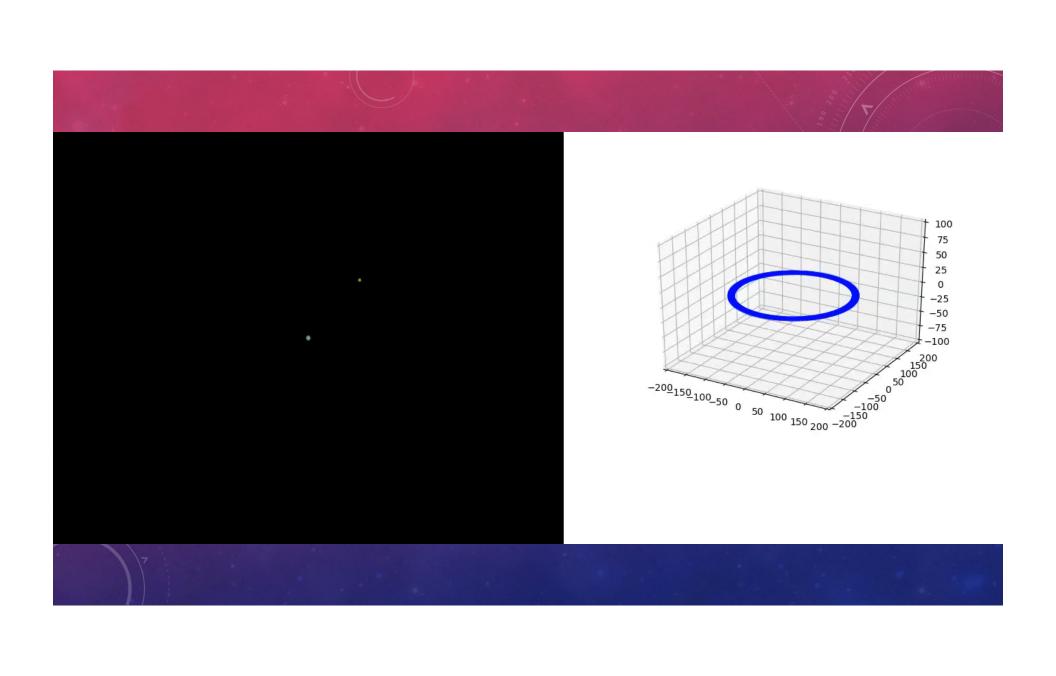
- Companion Stars
 - Long Orbital Periods
 - Tens of Millions of Years
 - Unstable Orbits
 - Galactic Tide
 - Stellar Passages

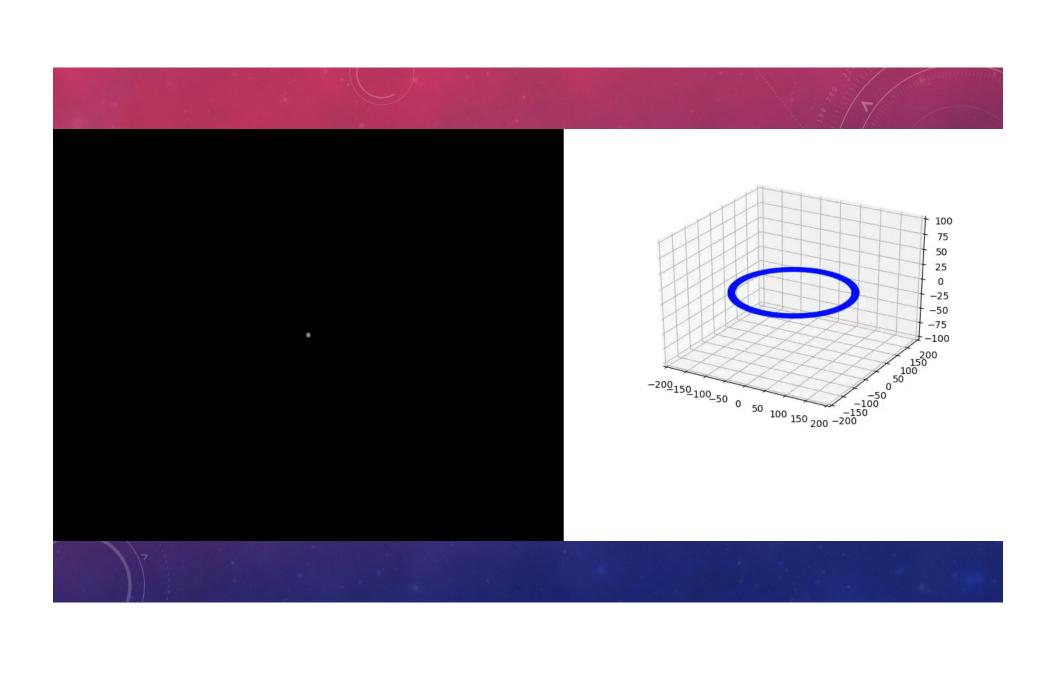


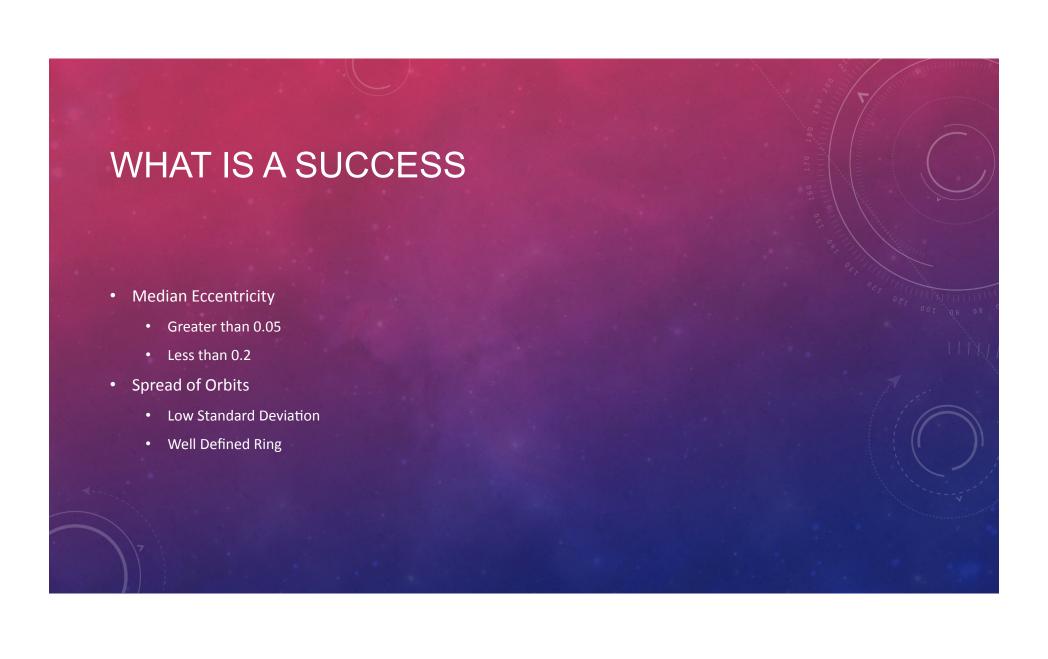
SIMULATIONS

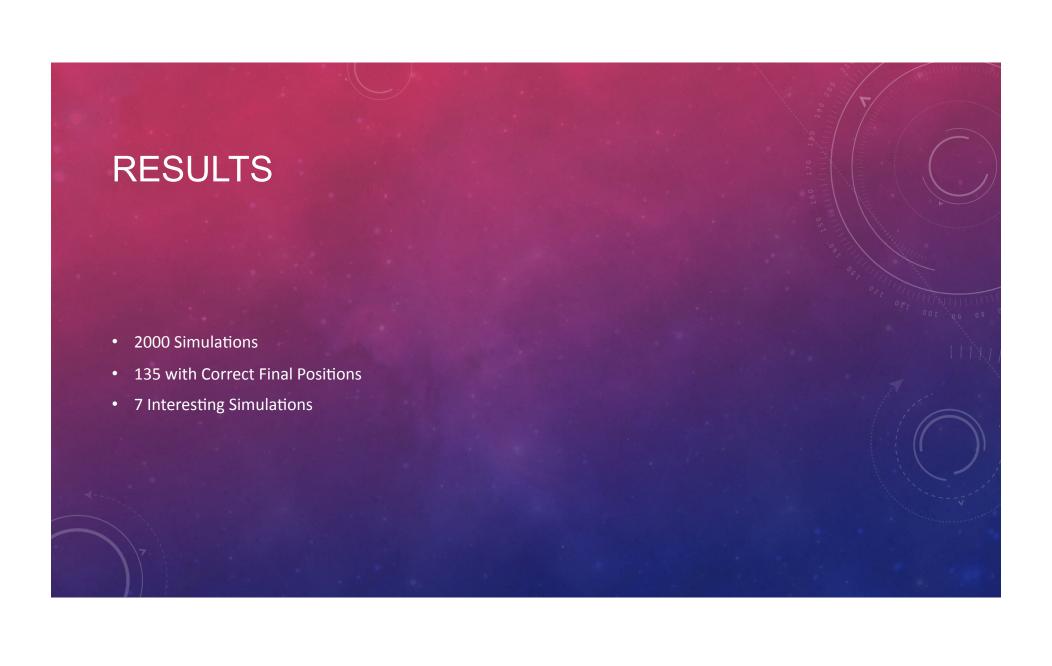
- 2000 Simulations
 - Random Initial Conditions
 - No Disk
- Final Positions
 - Simulations within 50% of Observed
 - Rerun with Disk













- Many Simulations
 - About 1% Finished with Correct Final Conditions
- Eccentric Ring Recreated with Stellar Companions
- Eccentric Ring not Necessarily a 'Smoking Gun' for Planetary Detection
- Upcoming Observations
 - James Webb Space Telescope



