

The Law of Capture in Star System Formation

Jeffrey J. Wolynski
Jeffrey.wolynski@yahoo.com
January 20, 2017
Cocoa, FL 32922

Abstract: If there are older stars orbiting younger ones, then star system formation via capture is the law of star system formation.

In stellar metamorphosis, the solar system is comprised of a multitude of stars in various stages of evolution. The Sun is the youngest star in the system, and Mercury/Venus are two of the oldest ones. Since the older stars are orbiting the younger one, it means the younger absolutely had to capture them. This is the most logical sequence, as the Sun did not exist when Mercury and Venus were much more active stars. As well, it would have thrown the orbital dynamics off considerably, as Mercury and Venus were Sun-like themselves at one point in their evolution.

The law of capture states that,

"Since older stars orbit younger ones, the younger which were not formed yet had to capture the older in order to form their current orbital configurations."

This law follows from both the mass loss principle which states,

"As stars evolve, cool and die, they lose mass."

And the adoption principle of star system formation,

"Stars adopt other stars and they evolve together once stable orbits are achieved."