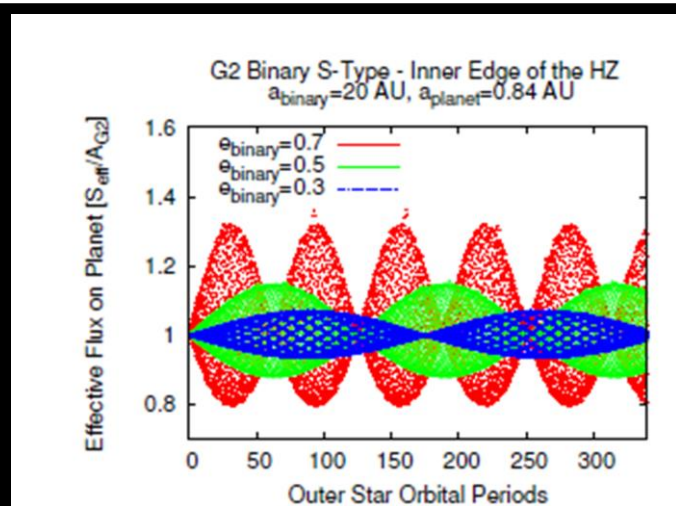


Result – 1: New Method

to determine Habitable Zones of circumstellar motion in Binary Stars



Insolation onto an Earth-like planet orbiting a G2 star of a binary star system. Oscillations are caused by the gravitational perturbation of the secondary.

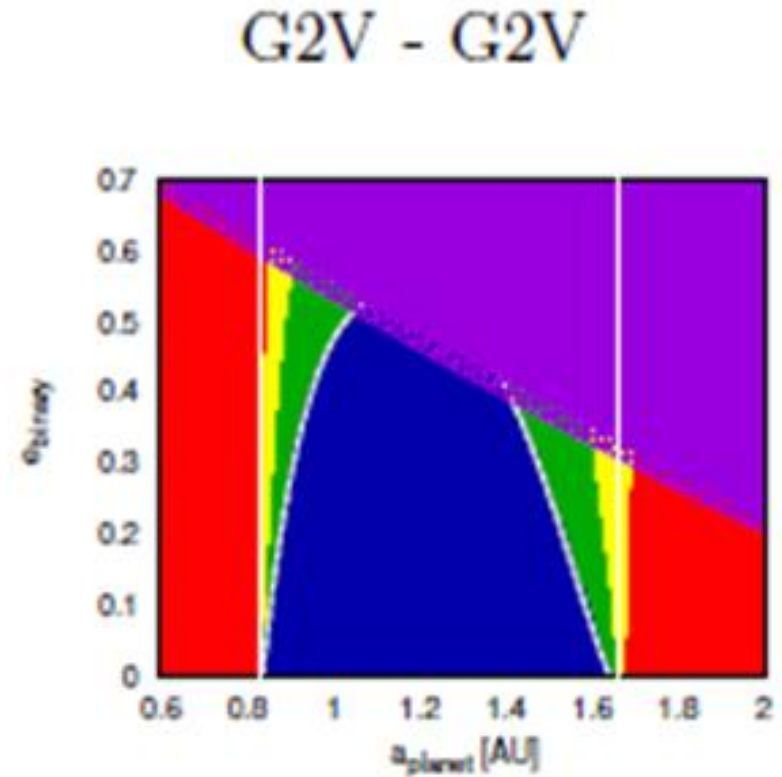
Different HZs due to the planet's eccentricity:

PHZ (permanently HZ):
planet is always in the HZ ,
i.e. blue area

EHZ (extended HZ):
planet is almost always in the HZ
i.e. green area

AHZ (averaged HZ):
planet is in average in the HZ
i.e. yellow area

red =not habitable ; purple =not stable
Vertical white lines: HZ of a G2V single star



See publications by
Eggl, Pilat-Lohinger + (2012, 2013)