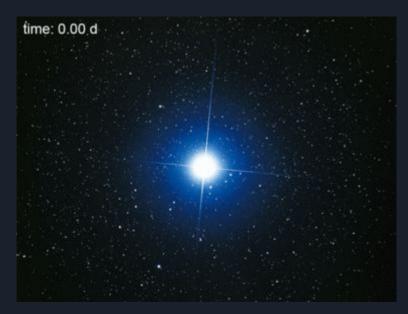
Determining White Dwarf Variability

By: Shania Wolf

Variable Stars: What are they?

- Varying brightness
 - Intrinsic
 - Caused by the star itself
 - Ex: Pulsations, eruptions
 - Extrinsic
 - Other bodies affecting star
 - Ex: Eclipsing binaries, sunspots
- Any stellar type
 - Research specific: white dwarfs
 - They are very small, dim, late-stage stars



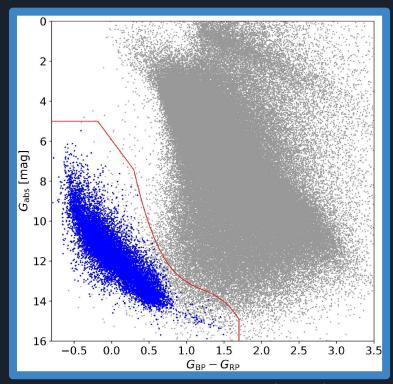
Graphic via: Exoplanet.sg

Research Goal:

Discover variable white dwarfs using ASASSN & TESS targets

Data Acquisition & Methods

- Obtained from ASASSN & TESS
 Surveys
 - White dwarfs determined from Gentile-Fusillo et al. (2019)
 - < 17th magnitude</p>
 - o Total targets: 8,500
- Data plotted using code by Alekzander Kosakowski
 - Produces light curves ->
 - Detection of variable targets
- Determine if target is known
 - o Vizier, Simbad
- If not, we discovered it!



Gentile-Fusillo et al. (2019)

