

Trumpler 5 - Cluster Properties and Exotic Populations

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For details please check out our poster (P02)

Trumpler 5 -

- Age − 3 Gyr
- Distance ~3050 pc
- Largest populations of Blue straggler stars

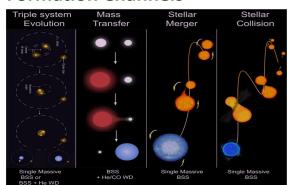
Blue straggler stars -

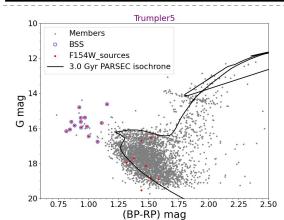
- Do not seem to follow standard theory of single-evolution star
- Brighter and bluer than the MSTO
- Lucky late bloomers which gained mass

Data used –

- Ultraviolet data Astrosat/UVIT, GALEX
- Optical data Gaia, PanSTARRS
- Infrared data 2MASS, WISE

Formation Channels -





What do we want to know?

- Fundamental properties and structural parameters
- Dynamical evolution of the cluster
- Search for hot companions
- Investigate formation mechanisms

Conclusion -

- cluster radius = 20', core radius = 4.19', tidal radius = 45.21'
- Binary stars 13
- Single star 1
- All binary stars have a low- or extremely-low mass white dwarf as a companion