



Sh 2-301 :A blistered H II region undergoing star formation

Rakesh Pandey*, **Saurabh Sharma****, **Lokesh Dewangan***

Physical Research Laboratory, Ahmedabad*, Aryabhata Research Institute of Observational Sciences, Nainital**, Email: pandey.rakesh405@gmail.com

Observed data



Archival data

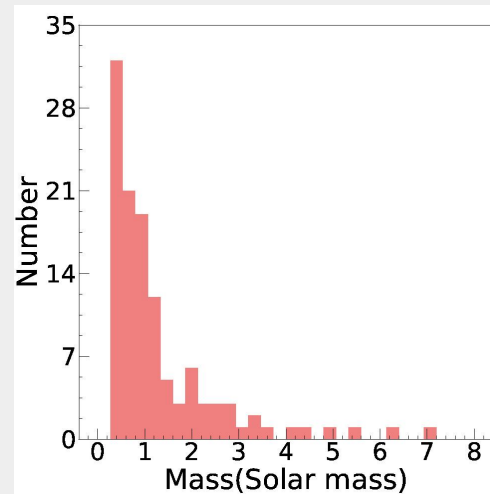
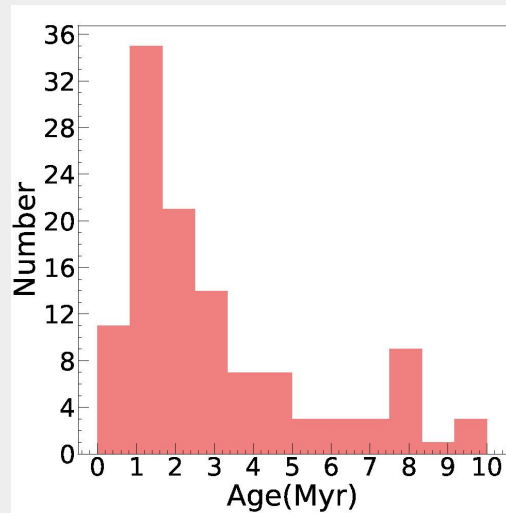
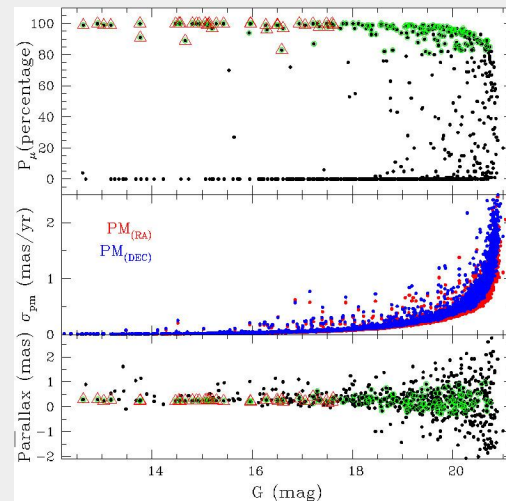
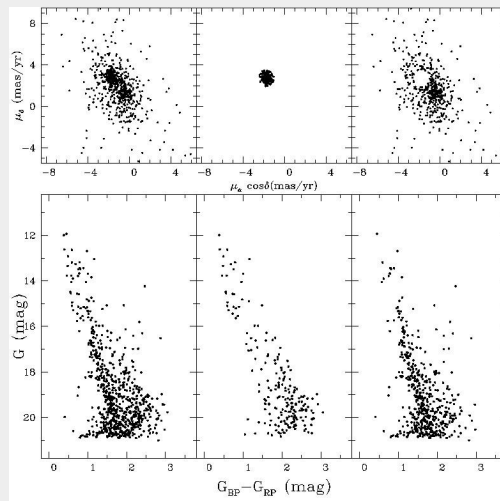
Proper motion data	NIR	MIR	FIR	Radio
<i>Gaia</i> eDR3	2MASS	WISE	AKARI, Planck	NVSS, HIPASS

Cluster analysis:

- Surface density analysis
- Membership estimation
- Reddening and distance estimation

- Gaia DR3 data has been used to identify 194 members of this cluster.

- The mean values of the age and mass of the member stars are found to be 3.9 ± 3.2 Myr and 1.3 ± 1.2 solar mass, respectively.

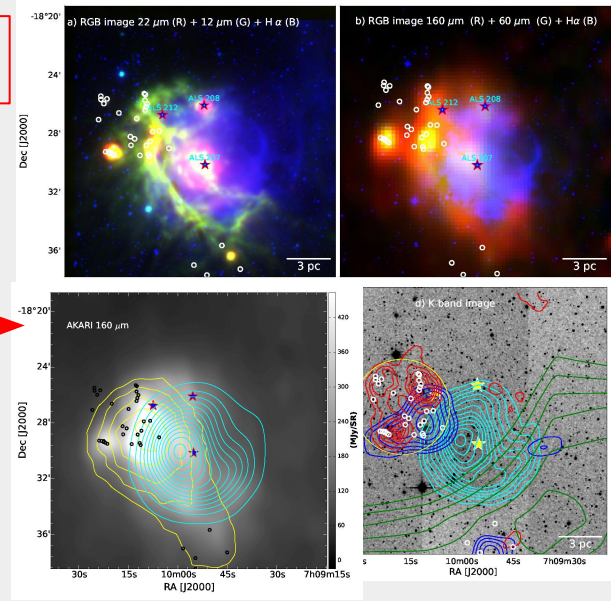
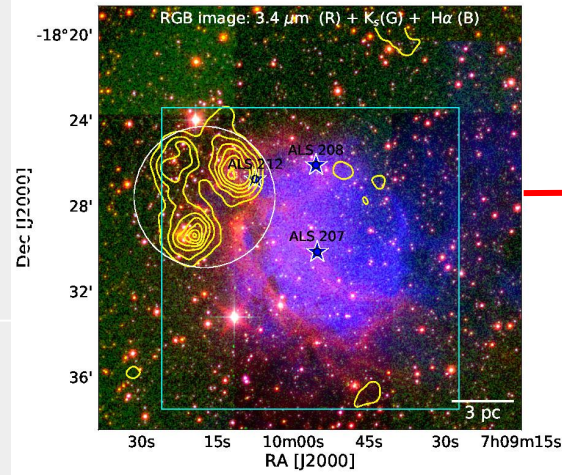


❑ **Sh 2-301 : A blistered H II region undergoing star formation** Pandey et al., 2022

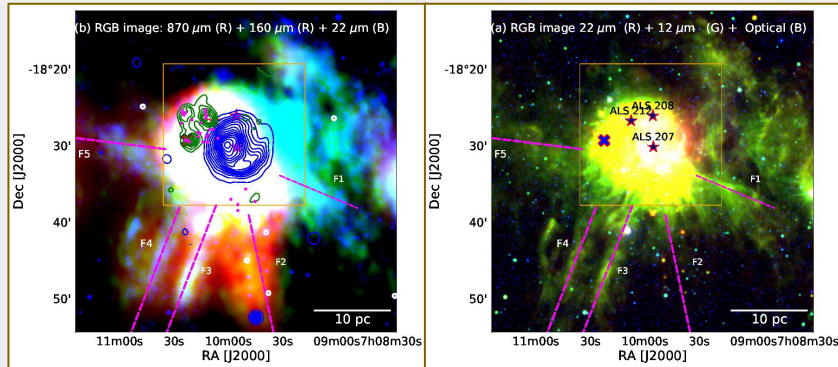
❑ **Sh 2-301**

[RA= 07: 10: 00; Dec= -18: 28: 00]

- S301 also known as RCW 6 is a galactic H II region
- ALS 207 (O6.5), ALS 208 and ALS 212 (B type) (Moffat et al. 1979)



• **Hub-filament system in Sh 2-301**



• **High resolution radio continuum image**

