Refereed Publications

Total- 24 publications, First author- 6

a) First author (6):

Sahu, Snehalata, including 7 coauthors, *Ultraviolet Carbon detection reveals a hot white dwarf merger remnant*, 2024, Nature Astronomy, under review.

Sahu, Snehalata, Tremblay, Pier-Emmanuel; Lallement, Rosine; Redfield, Seth; and, Gansicke, Boris.T. *Ultraviolet extinction correlation with 3D dust maps using white dwarfs*, 2024, MNRAS, 2024MNRAS.535.1147S.

Sahu, Snehalata, including 10 coauthors. *An HST COS ultraviolet spectroscopic survey of 311 DA white dwarfs - I. Fundamental parameters and comparative studies*, 2023, MNRAS, Bib. code: 2023MNRAS.526.5800S

Sahu, Snehalata, including 24 coauthors; *Globular Cluster UVIT Legacy Survey (GlobULeS) - I. FUV-optical colour-magnitude diagrams for eight globular clusters.*, 2022, MNRAS, Bib code: 2022MNRAS.514.1122S

Sahu, Snehalata, including 10 coauthors, *Detection of a White Dwarf Companion to a Blue Straggler Star in the Outskirts of Globular Cluster NGC 5466 with the Ultraviolet Imaging Telescope (UVIT)*, 2019, ApJ, 876, 34

Sahu, Snehalata; Subramaniam, Annapurni; Côté, Patrick; Rao, N. Kameswara; Stetson, Peter B.,*UVIT-HST-GAIA view of NGC 288: a census of the hot stellar population and its properties from UV*, 2019, MNRAS, 482, 1080-1095

b) 2nd and 3rd co-author (6):

Pelisoli, Ingrid; **Sahu, Snehalata**; including 8 coauthors; *Unveiling the white dwarf in J191213.72-441045.1 through ultraviolet observations*, 2024, MNRAS, Bib code: 2024MNRAS.527.3826P

Singh, Gaurav; **Sahu, Snehalata**; Subramaniam, Annapurni; and Yadav, R.K.S; *Peculiarities in the horizontal branch stars of globular cluster NGC 1851: Discovery of a Blue straggler companion to an EHB star*, 2020, ApJ, 905, 44.

Subramaniam, Annapurni; **Sahu, Snehalata**; including 16 coauthors, *The Horizontal Branch Population of NGC 1851 as Revealed by the Ultraviolet Imaging Telescope (UVIT)*, 2017, AJ, 154, 233.

Kumar, Ranjan; Pradhan, Ananta C.; **Sahu, Snehalata**, including 4 coauthors, *Globular Cluster UVIT Legacy Survey (GlobULeS)- II. Evolutionary status of hot stars in M3 and M13*, 2023, MNRAS, 2023MNRAS.522..847K.

Prabhu, Deepthi S.; Subramaniam, Annapurni; **Sahu, Snehalata**; including 21 coauthors, *Globular Cluster UVIT Legacy Survey (GlobULeS). III. Omega Centauri in Far-ultraviolet*, 2022, ApJ, 2022ApJ...939L..20P

Prabhu, Deepthi S.; Subramaniam, Annapurni; **Sahu, Snehalata**; *The First Exten-*

sive Exploration of UV-bright Stars in the Globular Cluster NGC 2808, 2021, ApJ, 908, 1, 66.

c) other co-author:

Munday, James; Pakmor, Ruediger; Pelisoli, Ingrid; Jones, David; **Sahu, Snehalata** and 7 additional coauthors, *A super-Chandrasekhar mass type Ia supernova progenitor at 49 pc set to detonate in 23 Gyr*, 2025, accepted in Nature Astronomy.

Ould Rouis, Lou Baya; Hermes, J. J.; Gänsicke, Boris T.; **Sahu, Snehalata** and 7 additional coauthors, *Constraints on Remnant Planetary Systems as a Function of Main-sequence Mass with HST/COS*, 2024, ApJ, 2024ApJ...976..156O.

Elms, Abbigail K.; and 9 coauthors including **Sahu, Snehalata**, *A network of cooler white dwarfs as infrared standards for flux calibration*, 2024, MNRAS, 2024MNRAS.534.2758E.

Dattatrey, Arvind K.; and 7 coauthors including **Sahu, Snehalata**, *GlobULeS. IV. UVIT/AstroSat Detection of Extremely Low Mass White Dwarf Companions to Blue Straggler Stars in NGC 362*, 2023, ApJ, 2023ApJ...943..130D.

Rani, Sharmila; Pandey, Gajendra; Subramaniam, Annapurni; Chung, Chul; **Sahu, Snehalata**; and Kameshwara Rao, N., *AstroSat Study of the Globular Cluster NGC 2298: Probable Evolutionary Scenarios of Hot Horizontal Branch Stars*, 2021, ApJ, 2021ApJ...923..162R.

Rani, Sharmila; Pandey, Gajendra; Subramaniam, Annapurni; **Sahu, Snehalata**; and Kameshwara Rao, N.,*Study of UV-bright stellar populations in the globular cluster NGC 1261 using Astrosat*, 2021, MNRAS, 501, 2140-2155

Rani, Sharmila; Subramaniam, Annapurni; Pandey, Sindhu; **Sahu, Snehalata**; Mondal, Chayan; and Pandey, Gajendra, *UOCS. V. UV study of the old open cluster NGC 188 using AstroSat*, 2020, JAA, 42, 47.

Subramaniam, Annapurni; Pandey, Sindhu; Jadhav, Vikrant V.; **Sahu, Snehalata**; *UVIT/ASTROSAT studies of Blue Straggler stars and post-mass transfer systems in star clusters: Detection of one more blue lurker in M67.* 2020, JAA, 41, 45.

Rani, Sharmila; Pandey, Gajendra; Subramaniam, Annapurni; **Sahu, Snehalata**; Kameswara Rao, N; *The Horizontal Branch morphology of the globular cluster NGC 1261 using AstroSat*, 2020, JAA, 41, 35

Tandon, S.N. *et al.* and 25 coauthors including **Sahu, S**, *In-orbit Calibrations of the Ultra-Violet Imaging Telescope*, 2017, AJ, 154, 128.

Tandon, S. N. *et al.* and 25 coauthors including **Sahu, S**, *In-orbit Performance of UVIT and First Results* 2017, JAA, 38, 28.

Subramaniam, Annapurni *et al.* and 16 coauthors including **Sahu, S**, *A Hot Companion to a Blue Straggler in NGC 188 as Revealed by the Ultra-Violet Imaging*

Telescope (UVIT) on ASTROSAT 2016, ApJL, 833, L27.

Conference contributions, Review Articles

Tremblay, Pier-Emmanuel; Bedard, Antoine; O'Brien, Mairi W; Munday, James; Elms, Abbigail K.; Gentillo Fusillo, Nicola Pietro; **Sahu, Snehalata**, *The Gaia white dwarf revolution*, New Astronomy Reviews, 2024, 2024NewAR..9901705T

Toloza, O.; Rebassa-Mansergas, A.; Raddi, R.; including **Sahu, Snehalata** as a co-author, *The White Dwarf Binary Survey (WDB)* The Messenger, vol. 190, p. 4-6

Sahu, Snehalata; Subramaniam, Annapurni, *Radial Distribution of Blue Stragglers in NGC 5466 using AstroSat*, 2020, Proceedings of IAUS- Star Clusters, 351, 498-501.

Nayak P. K.; Subramaniam, Annapurni; Subramaniam, Smitha; **Sahu, Snehalata**; Mondal, Chayan; Cioni, Maria Rosa; Bell, Cameron, *Detection of extended Red Clump in the SMC cluster Kron 3*, 2020, Proceedings of IAUS- Star Clusters, 351, 135-138

Subramaniam, Annapurni et al., and 25 coauthors including **Sahu, Snehalata**, *In-orbit Performance of UVIT on ASTROSAT*, 2016, SPIE, 9905, 99051F.