

Publication List

Shyam Harimohan Menon

Last synced: 2026-06-04

28 refereed publications: 9 first-author, 5 second-author, 14 collaborator (ADS Listing)

- [1] [Blue Monsters and Dusty Descendants: Reconciling UV and IR Emission from Galaxies from \$z \sim 7\$, up to \$z = 14\$](#)
Sommovigo, L., Lancaster, L., **Menon, S.**, O’Leary, J., Somerville, R., Bryan, G. *ApJ*, 2026, 1003, 170
- [2] [Lyman-alpha Radiation Pressure in Dense Star Clusters: Implications for Star Formation and Winds at Cosmic Dawn](#)
Menon, S., Smith, A. *arXiv e-prints*, 2026, arXiv:2605.13982
- [3] [An FUV-optical Approach for Studying Hierarchical Star Formation in Nearby Galaxies with UVIT](#)
Ananthu, S., Shashank, G., Subramanian, S., Jayanth, R., **Menon, S.**, Mondal, C., et al. *ApJ*, 2026, 1002, 220
- [4] [Radiation magnetohydrodynamics simulations of Population III star formation during the epoch of reionization](#) [3 Citations]
van Veenen, L., Sharda, P., Viti, S., **Menon, S.** *Astronomy and Astrophysics*, 2026, 708, A61
- [5] [A cosmological framework for stellar collisions at high redshift in proto-globular clusters, nuclear star clusters, and Little Red Dots](#) [1 Citations]
Williams, C., Naoz, S., Rose, S., Burkhart, B., Yoshida, N., Chen, A., **incl. Menon, S.H.**, et al. *arXiv e-prints*, 2026, arXiv:2603.26872
- [6] [Radiative Feedback in Population III Protostellar Growth: The Impact of HI Shielding](#)
Chen, A., **Menon, S.**, Burkhart, B., Sharda, P., Williams, C., Naoz, S., et al. *arXiv e-prints*, 2026, arXiv:2604.00197
- [7] [Observing Compact Population III Star Clusters and the Presence of Cosmic Streaming](#) [5 Citations]
Williams, C., Naoz, S., Yoshida, N., Lake, W., Burkhart, B., Marinacci, F., **incl. Menon, S.H.**, et al. *ApJ*, 2026, 997, 202
- [8] [Density-modulated star formation efficiency: implications for the observed abundance of ultraviolet luminous galaxies at \$z \sim 10\$](#) [54 Citations]
Somerville, R., Yung, L., Lancaster, L., **Menon, S.**, Sommovigo, L., Finkelstein, S. *MNRAS*, 2025, 544, 3774
- [9] [Supersonic Turbulence in Primordial Halos: a Comparison with and without the Stream Velocity](#) [5 Citations]
Chen, A., Lake, W., Williams, C., Burkhart, B., Naoz, S., **Menon, S.**, et al. *ApJ*, 2025, 995, 65

- [10] [Detecting Molecular Hydrogen \(\$H_2\$ SUB \$\lambda\$ /SUB \$\lambda\$ \) Emission at Cosmic Dawn](#) [3 Citations]
Johnson, M., Burkhardt, B., D'Eugenio, F., Tacchella, S., Maiolino, R., Bialy, S., **incl. Menon, S.H.**, et al. *ApJ*, 2025, 992, 196
- [11] [CDM Star Clusters at Cosmic Dawn: Stellar Densities, Environment, and Equilibrium](#) [9 Citations]
Williams, C., Naoz, S., Lake, W., Burkhardt, B., Marinacci, F., Vogelsberger, M., **incl. Menon, S.H.**, et al. *ApJ*, 2025, 990, 135
- [12] [Planets and planetesimals at cosmic dawn: vortices as planetary nurseries](#) [7 Citations]
Eriksson, L., **Menon, S.**, Carrera, D., Lyra, W., Burkhardt, B. *MNRAS*, 2025, 542, 641
- [13] [The Coevolution of Stellar Wind-blown Bubbles and Photoionized Gas. I. Physical Principles and a Semianalytic Model](#) [7 Citations]
Lancaster, L., Kim, J., Bryan, G., **Menon, S.**, Ostriker, E., Kim, C. *ApJ*, 2025, 989, 42
- [14] [Magnetic fields limit the mass of Population III stars even before the onset of protostellar radiation feedback](#) [10 Citations]
Sharda, P., **Menon, S.**, Gerasimov, R., Bromm, V., Burkhardt, B., Haemmerlé, L., et al. *MNRAS*, 2025, 541, L1
- [15] [Bursts of Star Formation and Radiation-driven Outflows Produce Efficient LyC Leakage from Dense Compact Star Clusters](#) [35 Citations]
Menon, S., Burkhardt, B., Somerville, R., Thompson, T., Sternberg, A. *ApJ*, 2025, 987, 12
- [16] [Population III star formation in the presence of turbulence, magnetic fields, and ionizing radiation feedback](#) [25 Citations]
Sharda, P., **Menon, S.** *MNRAS*, 2025, 540, 1745
- [17] [Linking Stellar Populations to H II Regions across Nearby Galaxies. II. Infrared Reprocessed and UV Direct Radiation Pressure in H II Regions](#) [12 Citations]
Pathak, D., Leroy, A., Thompson, T., Lopez, L., Barnes, A., Dale, D., **incl. Menon, S.H.**, et al. *ApJ*, 2025, 982, 140
- [18] [Tracing hierarchical star formation out to kiloparsec scales in nearby spiral galaxies with UVIT](#) [6 Citations]
Shashank, G., Subramanian, S., Muraleedharan, S., **Menon, S.**, Mondal, C., Krishna, S., et al. *Astronomy and Astrophysics*, 2025, 693, A188
- [19] [A 260 pc resolution ALMA map of HCN\(10\) in the galaxy NGC 4321](#) [6 Citations]
Neumann, L., Bigiel, F., Barnes, A., Gallagher, M., Leroy, A., Usero, A., **incl. Menon, S.H.**, et al. *Astronomy and Astrophysics*, 2024, 691, A121
- [20] [Hidden Gems on a Ring: Infant Massive Clusters and Their Formation Timeline Unveiled by ALMA, HST, and JWST in NGC 3351](#) [31 Citations]
Sun, J., He, H., Batschkun, K., Levy, R., Emig, K., Rodríguez, M., **incl. Menon, S.H.**, et al. *ApJ*, 2024, 967, 133
- [21] [The Interplay between the Initial Mass Function and Star Formation Efficiency through Radiative Feedback at High Stellar Surface Densities](#) [45 Citations]
Menon, S., Lancaster, L., Burkhardt, B., Somerville, R., Dekel, A., Krumholz, M. *ApJ*, 2024, 967, L28
- [22] [Outflows driven by direct and reprocessed radiation pressure in massive star clusters](#) [54 Citations]
Menon, S., Federrath, C., Krumholz, M. *MNRAS*, 2023, 521, 5160

- [23] [Infrared radiation feedback does not regulate star cluster formation](#) [28 Citations]
Menon, S., Federrath, C., Krumholz, M. *MNRAS*, 2022, 517, 1313
- [24] [VETTAM: a scheme for radiation hydrodynamics with adaptive mesh refinement using the variable Eddington tensor method](#) [25 Citations]
Menon, S., Federrath, C., Krumholz, M., Kuiper, R., Wibking, B., Jung, M. *MNRAS*, 2022, 512, 401
- [25] [First extragalactic measurement of the turbulence driving parameter: ALMA observations of the star-forming region N159E in the Large Magellanic Cloud](#) [25 Citations]
Sharda, P., **Menon, S.**, Federrath, C., Krumholz, M., Beattie, J., Jameson, K., et al. *MNRAS*, 2022, 509, 2180
- [26] [The dependence of the hierarchical distribution of star clusters on galactic environment](#) [21 Citations]
Menon, S., Grasha, K., Elmegreen, B., Federrath, C., Krumholz, M., Calzetti, D., et al. *MNRAS*, 2021, 507, 5542
- [27] [On the compressive nature of turbulence driven by ionizing feedback in the pillars of the Carina Nebula](#) [38 Citations]
Menon, S., Federrath, C., Klaassen, P., Kuiper, R., Reiter, M. *MNRAS*, 2021, 500, 1721
- [28] [On the turbulence driving mode of expanding H II regions](#) [33 Citations]
Menon, S., Federrath, C., Kuiper, R. *MNRAS*, 2020, 493, 4643