## List of Publications

## Premvijay Velmani

November, 2024

- 1. Premvijay Velmani, Aseem Paranjape, 2023, "The quasi-adiabatic relaxation of haloes in the IllustrisTNG and EAGLE cosmological simulations", *Monthly Notices of the Royal Astronomical Society*, **520**(2):2867-2886. doi:10.1093/mnras/stad297 ads:2023MNRAS.520.2867V
- 2. Premvijay Velmani, Aseem Paranjape, 2024, "A self-similar model of galaxy formation and dark halo relaxation", *Journal of Cosmology and Astroparticle Physics*, **2024**(5):080. doi:10.1088/1475-7516/2024/05/080, ads:2024JCAP...05..080V
- 3. Premvijay Velmani, Aseem Paranjape, 2024, "Dynamics of the response of dark matter halo to galaxy evolution in IllustrisTNG", submitted to JCAP, arXiv e-prints, doi:10.48550/arXiv.2407.08030, ads:2024arXiv240708030V
- 4. Premvijay Velmani, Aseem Paranjape, 2024, "Role of astrophysical modeling on dark matter halo relaxation response at redshifts z=0 and z=1", submitted to JCAP,  $arXiv\ e\text{-}prints$ , doi:10.48550/arXiv.2408.04864, ads:2024arXiv240804864V
- 5. Sujatha Ramakrishnan, Premvijay Velmani, 2022, "Properties beyond mass for unresolved haloes across redshift and cosmology using correlations with local halo environment.", Monthly Notices of the Royal Astronomical Society, **516**(4):5849-5862. doi:10.1093/mnras/stac2605