References

[1] Douglas P. Finkbeiner. Microwave interstellar medium emission observed by the wilkinson microwave anisotropy probe. *The Astrophysical Journal*, 614(1):186, oct 2004. doi: 10.1086/423482. URL https://dx.doi.org/10.1086/423482.

[2] Richard Conn Henry, Jayant Murthy, James Overduin, and Joshua Tyler. The Mystery of the Cosmic Diffuse Ultraviolet Background Radiation. , 798(1):14, January 2015. doi: 10.1088/0004-637X/798/1/14.

[3] Ariel Zhitnitsky. Axion quark nuggets. dark matter and matter–antimatter asymmetry: Theory, observations and future experiments. *Modern Physics Letters A*, 36(18):2130017, 2021. doi: 10.1142/S0217732321300172. URL https://doi.org/10.1142/S0217732321300172.

[4] Michael McNeil Forbes and Ariel R. Zhitnitsky. WMAP Haze: Directly Observing Dark Matter? *Phys. Rev.*, D78:083505, 2008. doi: 10.1103/PhysRevD.78.083505.

[5] Ariel Zhitnitsky. The mysterious diffuse uv radiation and axion quark nugget dark matter model. *Physics Letters B*, 828:137015, 03 2022. doi: 10.1016/j.physletb.2022.137015.

[6] Fabio Iocco, Miguel Pato, Gianfranco Bertone, and Philippe Jetzer. Dark matter distribution in the milky way: microlensing and dynamical constraints. *Journal of Cosmology and Astroparticle Physics*, 2011(11):029–029, nov 2011. doi: 10.1088/1475-7516/2011/11/029. URL https://doi.org/10.1088%2F1475-7516%2F2011%2F11%2F029.

[7] A. Sokołowska, L. Mayer, A. Babul, P. Madau, and S. Shen. Diffuse Coronae in Cosmological Simulations of Milky Way-Sized Galaxies. *The Astrophysical Journal*, 819(1):21, feb 2016. doi: 10.3847/0004-637x/819/1/21. URL https://doi.org/10.3847/0004-637x/819/1/21.

[8] Andrew R. Wetzel, Philip F. Hopkins, Ji-hoon Kim, Claude-André Faucher-Giguère, Dušan Kereš, and Eliot Quataert. Reconciling Dwarf Galaxies with ΛCDM Cosmology: Simulating a Realistic Population of Satellites around a Milky Way-mass Galaxy. , 827(2):L23, August 2016. doi: 10.3847/2041-8205/827/2/L23.

[9] Michael Sekatchev. An explanation of the observed excess emissions in our galaxy using the axion quark nugget dark matter model, Apr 2023. URL https://open.library.ubc.ca/collections/undergraduateresearch/52966/items/1.0432072.

[10] Edward Witten. Cosmic separation of phases. *Phys. Rev. D*, 30:272–285, Jul 1984. doi: 10.1103/PhysRevD.30.272. URL https://link.aps.org/doi/10.1103/PhysRevD.30.272.