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The dawn of cosmic dawn cosmology

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Motivated by the opportunities for synergy between cosmic dawn line-intensity mapping and complementary observables such as the cosmic microwave background radiation and the ultraviolet luminosity functions of high-redshift galaxies, we will demonstrate new simulation and data-analysis pipelines that consistently combine these different sources of information and meet runtime requirements to enable Bayesian parameter inference. Using these tools, we will present the strongest bounds to date on ultralight dark matter in the 10^{-25} - 10^{-23} eV mass window and on a range of models in which dark matter has velocity-dependent interactions with baryons.

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