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Cosmic Reionization: An Analysis of Various Contributable Cosmological Factors. ADAM BRYAN, MARCO FATUZZO, Xavier University, Cincinnati, OH — According to the most accepted model of cosmology, the Λ -CDM model, the intergalactic medium (IGM) slowly becomes ionized after the period of recombination. This span of ionization, deemed the epoch of reionization, has proven to be a pertinent chapter to the narrative of our evolving universe. Star-forming galaxies have been accredited as the driving force behind reionization, however, recent results suggest that they cannot be the only cause of reionization. The purpose behind this work was to incorporate other cosmological phenomena to reduce the amount of radiation needed from star-forming galaxies, while still meeting the observational criteria of reionization.

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