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Título: Spectral signatures of the star-forming galaxies at the epoch of reionization

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Resumen:

The NIRSpec spectrograph onboard the James Webb Space Telescope will collect high-quality spectra of thousands of high-redshift galaxies; in particular, it will provide detailed information about the rest-frame ultraviolet and optical spectra of large samples of galaxies near the reionization epoch. In this context, it is crucial to develop sophisticated models to analyze the light emitted from galaxies, particularly to interpret in a reliable way the spectral signatures of primeval galaxies in terms of constraints on star formation and interstellar gas parameters. We use new-generation models of the ultraviolet emission from young star-forming galaxies to explore the nebular emission signatures of the production, absorption and loss of ionizing photons in primeval galaxies.