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21-cm Emission and Absorption by the Intergalactic Medium: What can we learn on Dark Matter Particle Candidates?

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A review of the physical effects and impacts of several dark matter particle candidates on the observable characteristics of 21-cm emission and absorption from the high-redshift Universe will be presented, including annihilation to gamma-rays, energy release from black holes, elastic scattering with baryons, and dark matter free-streaming effects.

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