Phenomenology 2021 Symposium



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Nuclear Fusion inside Dark Matter

Wednesday 26 May 2021 15:00 (15 minutes)

Large composite states of dark fermions bound by a scalar provide a potential field under which Standard Model nuclei can accelerate to large kinetic energies, resulting in copious amounts of collisional radiation and, at the highest energies, thermonuclear fusion. In this talk, I discuss how this effect can cause white dwarfs to explode, as well as its detectability prospects at neutrino observatories like IceCube.

Summary

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