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Dark Matter Searches with the KM3NeT Neutrino Telescope

Friday, 26 March 2021 13:30 (20 minutes)

Summary

In this talk after introducing an angular power spectrum analysis method for the future sensitivity of KM3NeT neutrino telescope on the annihilating dark matter signals, I will discuss the implications of the results on the various particle dark matter models. Particular attention will be made on the assessment of limits complementing the current dark matter searches and possibly addressing some of the anomalies observed. I will emphasise that future neutrino telescopes will be able to competitively probe significant portions of parameter space and will provide critical complementary information on the dark matter searches.

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Session Classification: Contributed talks