

Phenomenology 2018 Symposium



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The Inflaton portal to PeV-EeV dark matter

Tuesday 8 May 2018 17:15 (15 minutes)

In this talk I will present some original work in which we suggest that the relic density of dark matter may be produced thermally in a hidden sector whose interaction with the standard model is exclusively passing through the inflationary sector. I will show that the parameter space required for such an inflaton portal is extremely natural as compared to previous proposals on highly decoupled dark matter production and can be probed by high energy cosmic ray searches.

Summary

Early Universe, Inflation, Dark matter

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