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Decaying dark matter

Tuesday 6 July 2021 13:45 (15 minutes)

In this presentation I will go through the goals of my PhD project, what I am working on at the moment, and how this relates to neutrinos. I will present some analytical results (recently published) relating standard sterile neutrinos through ΔN_{eff} to very short-lived decaying cold dark matter, and I will describe how the decay of massive dark neutrinos can help to relieve the Hubble tension along with the numerical aspect of this problem. During my PhD, I will investigate different cases of direct and two-body decays with increasing numerical difficulty. I will present the ideas and possible outcomes of these different cases.

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