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Particle-physics constraints from stars

Wednesday, 21 October 2020 16:00 (2 hours)

Stars can be powerful laboratories to constrain the properties of low-mass particles such as neutrinos, axions, dark photons, low-mass dark-matter candidates, and others. This lecture will mainly focus on the back-reaction on stellar properties caused by the emission of new particles, so we will explain some of the basics of stellar evolution theory. We will also review some old and new limits that are of particular interest at the particle-physics "intensity frontier".

Presenter: Prof. RAFFELT, Georg (Munich, Max Planck Inst.)

Session Classification: KEK-PH + KEK-Cosmo DM