Contribution ID : **857** Type : **Oral talk**

Finding new physics, phenomenological, experimental and astrophysical predictions

Wednesday, 7 October 2020 12:15 (15)

The crucial phenomenological and experimental predictions for new physics are outlined, where the number of problems of the Standard Model (neutrino masses and oscillations, dark matter, baryon asymmetry of the Universe, strong CP-problem) could find their solutions.

The analogies between the Cosmological time evolution of the early universe and multiparticle production in high-energy collisions are discussed and the search for new physics and phenomena.

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Session Classification : HEP theory

Track Classification : HEP theory