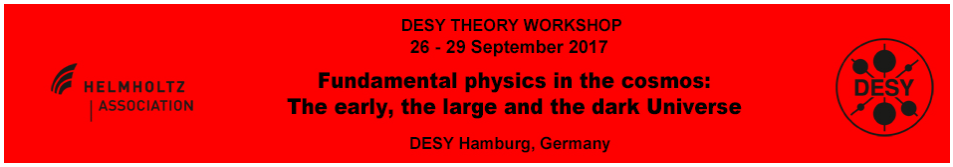

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Dark Matter in SO(10) GUT

Thursday 28 September 2017 15:25 (17 minutes)

SO(10) grand unified theories can ensure the stability of new particles in terms of the gauge group structure itself, and in this respect are well suited to motivate and accommodate dark matter (DM) candidates in the form of new stable massive particles. I will give an overview of DM scenarios and related phenomenology within the framework of non-supersymmetric SO(10). In the last part of the talk I will present recent development with SO(10)xU(1), where the abelian part arises from E6 grand unification. This framework offers a rich and varied DM phenomenology.

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Session Classification: Parallel Session: Cosmology & Astroparticle Physics - Dark Matter

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