



Contribution ID: 22

Type: **Planary Talk**

From asymptotic freedom to asymptotic safety in particle physics

Tuesday 7 April 2015 16:30 (23 minutes)

We study the high-energy behaviour of interacting non-Abelian gauge fields, fermions, and scalars. In a regime where asymptotic freedom is absent, we find that the three types of fields cooperate to develop an interacting UV fixed point, strictly controlled by perturbation theory. The key features of asymptotic safety for UV model building and particle phenomenology are discussed.

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Session Classification: BSM