

Asymptotic Grand Unified models

Friday, 17 April 2026 15:40 (30 minutes)

We present the idea of asymptotic grand unification, where the gauge couplings run to a unique fixed point in the ultraviolet, thanks to the presence of a compact extra dimension and to a specific choice group structure and multiplet content. We introduce a minimal model based on a $SU(5)$ gauge theory but also discuss $SO(10)$ and other generalisations, giving also few results on the expected phenomenology.

Presenter: DEANDREA, Aldo (University Lyon 1)

Session Classification: Plenary Theory 3 (GUT Special Session): Unification (Room 567, Chair Xinqiang Li)