

Poster: Insights into the highest natural scale

We apply the criterion of finite naturalness to the limiting case of a generic heavy sector decoupled from the standard model. The sole and inevitable exception is represented by gravitational interactions. We demonstrate how gravity can couple the Higgs to the heavy scale well before the three-loop diagrams mediated by the top quark discussed in previous literature. As an application, we illustrate how the criterion of finite naturalness disfavors large-field inflationary models with super-Planckian field excursions.

Would you be interested in presenting a poster? (this will not impact the decision on your talk)

yes

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