

Revisiting the relaxion mechanism

Thursday, 25 June 2020 13:00 (1 hour)

Zoom meeting: <https://cern.zoom.us/j/7930190483> (password: see email)

Format: 40 minutes talk + 20 min discussion

Virtual Axion Institute: The discussion on this talk can be continued in Geraldine's virtual guest office. <https://mattermost.web.cern.ch/axions/channels/geraldine-servant>

Abstract: Five years ago, a new mechanism was proposed to address the Higgs mass hierarchy problem through the cosmological evolution of an axion particle, the “relaxion”. I will discuss several stopping mechanisms for the relaxion, in particular the effect of axion fragmentation that was omitted in the former literature. I will present the implications for the relaxion parameter space and which new opportunities for model building are opened.

Presenter: SERVANT, Geraldine (DESY and U. Hamburg)

Session Classification: Naturalness