## Renormalisation group improvement of dynamical symmetry breaking by dark matter

Monday 7 July 2025 13:30 (20 minutes)

In my presentation, I will investigate the interplay between dynamical symmetry breaking mechanisms and dark matter. More precisely, I will focus on several important details of the recently proposed Higgs-dilaton model augmented with a dark matter candidate inducing quantum corrections. In contrast to the previous studies, I will consider the effects of the renormalisation group improvement and the contributions of the Standard Model gauge bosons and the top quark. I will show that with these modifications, the parameter space of the model is still large enough to relate dynamical symmetry breaking with the properties of dark matter, such as its mass and relic abundance.

**Authors:** KANNIKE, Kristjan (National Institute of Chemical Physics and Biophysics (EE)); MUURSEPP, Kristjan (NICPB, Tallinn and LNF-INFN, Frascati); Dr MARZOLA, Luca (NICPB)

Presenter: MUURSEPP, Kristjan (NICPB, Tallinn and LNF-INFN, Frascati)

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