

Screening of Scalar Fields - Challenges and Opportunities

Thursday, October 2, 2025 10:15 AM (45 minutes)

I will discuss the ways in which non-linear behaviour of scalar field theories, in particular variations of the mass of the scalar with the density of the local environment, can both hinder and help the detection of such scalars. To illustrate this I will discuss chameleon dark energy scalars, and quadratically coupled ultra-light dark matter.

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