



EINLADUNG

im Rahmen des Teilchenphysikseminars

zum Vortrag

von

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HEPHY, Wien

über

***„Variants and parametrization of
self-interacting dark matter“***

Abstract:

Cosmological simulations suggest that there exists an unexpected mass deficit in dark matter inner halos. This has inspired the study of self-scattering dark matter. In this talk, I will first discuss various dark matter models that can address such mass deficit while satisfying other observational bounds, such as self-interactions enhanced by light mediators, or by a s-wave resonance, at low velocities.

The second half of my talk will introduce the so-called effective-range approach, which describes the velocity dependence of the self-interaction cross section in a model-independent way, with only two parameters.

Zeit: Dienstag, 05.11.2019 **16:15**

Ort: Erwin-Schrödinger-Hörsaal, Boltzmannngasse 5, 5. Stock

gez.: A. Hoang, S. Plätzer