



Einladung zum Vortrag

Unraveling the dark sector: from theory to detection

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Lehrprobe 13:10 Uhr

Ort: Christian-Doppler-Hörsaal
9. Boltzmannngasse 5, 3. Stock

Abstract:

Astronomical and cosmological observations reveal a non-luminous gravitating matter component in our Universe, the Dark Matter. I will review evidence, theories, and avenues for its detection. I will then highlight recent theoretical advances that promise to extend the reach of direct detection experiments to light, sub-GeV dark matter candidates and discuss the calculations needed to put those results on indisputable grounds. In addition, I will argue how non-gravitational self-interactions can affect the astronomical distribution of dark matter and what is required to give the scenario a concise theory embedding.

Im Rahmen des Vortrages findet eine Lehrprobe zum Thema
„Der Virialsatz / The Virial Theorem“ statt.