



INVITATION

for a

VERA - SEMINAR

with

Jochen Schieck

Institut für Hochenergiephysik der
Österreichischen Akademie der Wissenschaften, Wien

Dark Matter Searches with Cryogenic Detectors

Cryodetectors have long been used in the direct search for dark matter. For several years, the search for dark matter was dominated by the search for so-called WIMPs (Weakly Interacting Massive Particles) in the mass range between a few GeV and hundreds of GeV.

Recently, the search has also expanded to the sub-GeV mass range. Due to their low energy detection threshold, cryogenic detectors have the best sensitivity in this mass range and are leading in this field. We will present the latest results of the CRESST experiment (Cryogenic Rare Event Search with Superconducting Thermometers).

We will also discuss the COSINUS experiment (Cryogenic Observatory for Signatures seen in Next-generation Underground Searches), which is based on cryogenic detectors and aims to provide new insights into understanding the long-term dark matter-like observations of the DAMA/ LIBRA experiment.

Thursday, 12.06.2025, 16:30 o'clock

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",
1. Stock, Victor-Franz-Hess Hörsaal**