

Status of the Light Dark Matter KAW project

Wednesday 15 June 2022 15:30 (15 minutes)

This contribution provides an overview of the status of the Knut and Alice Wallenberg project “Light Dark Matter”, a collaboration between experimental and theoretical particle and nuclear physicists from Lund University, Chalmers and Stockholm University. The project addresses the possible existence of sub-GeV dark matter in a very comprehensive way. Its activities range from the setup of a new, highly-sensitive experiment, LDMX, to discover such particles, over the development of software tools for simulations and statistical interpretation of the data, to connections and input to other existing and future experiments including direct detection. In this talk, we will review the motivation and goals of the project, report on recent activities and progress, and give an outlook on the next steps.

Author: EMKEN, Timon

Presenter: EMKEN, Timon

Session Classification: Sektionen för elementarpartikel och astropartikelfysik

Track Classification: Parallel session: partikelsektionen