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New Approaches in Search for Light Dark Matter

In the absence of a confirmed dark-matter signal in traditional dark-matter search experiments, advances in theory and experiment have opened up various new possibilities of searching for dark-matter particles even lighter than GeV, e.g. boosted dark matter, direct detection with novel materials and sensors, and beam dump experiments. In this talk, I will focus on recent advancements in energetic dark-matter searches. First, I will provide a short summary of various dark-matter boosting mechanisms and explain their direct searches with some potential issues. Next, I will very briefly mention the importance of cosmological side studies of boosted dark matter.

Track type

Dark Matter

Author: Prof. PARK, Jong-Chul (Chungnam National University (KR)) Presenter: Prof. PARK, Jong-Chul (Chungnam National University (KR))