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Searching for Light Dark Matter - Boosted Dark Matter

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In the absence of a confirmed dark-matter signal in traditional dark-matter search experiments, advances in theory and experiment have opened 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 boosting mechanisms of dark-matter particles and explain their direct searches with some potential issues. Next, I will discuss new search channels of boosted dark matter. I will also very briefly mention the importance of cosmological side studies of boosted dark matter.

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