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Ultralight Dark Matter Search: unconventional techniques and their theoretical challenges

Thursday 31 October 2024 09:00 (30 minutes)

In recent years, ultralight dark matter models have gained significant attention as a novel paradigm in dark matter research. These models produce signals distinct from the conventional WIMP dark matter, prompting the development of unconventional detection methods. In this talk, I will review several proposed and ongoing searches, with a particular focus on research conducted in Japan. Additionally, I will discuss the theoretical challenges that arise in these approaches, highlighting areas that require further exploration.

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