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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.

**Presenter:** FUJITA, Tomohiro (Ochanomizu University)

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