

Search for ULDM from the lab to our Galactic Center.

Wednesday, October 1, 2025 3:15 PM (45 minutes)

The microscopic nature of dark matter remains one of the major open mysteries in modern physics. Over the past decade, ultra-light dark matter (ULDM) candidates have attracted growing interest. In this talk, I will provide a brief overview of strategies aimed at the direct detection of ULDM. I will discuss the different signatures that ULDM may induce and highlight recent experimental results, both from laboratory setups and experiments in Earth's orbit. Finally, I will outline possible directions for future efforts, ranging from new laboratory experiments to astronomical observations of our Galactic Center.

Presenter: HEES, Aurélien (LTE, Paris)