

## COLLOQUIUM

# In search for ultralight (pseudo)scalars and other dark matter wannabes

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**Abstract** The list of interesting dark matter (DM) candidates is not getting any shorter. It includes, among others, ultralight bosonic fields, millicharged particles, axion-quark nuggets and other object with widely diverging properties. We will discuss some of the recently employed or proposed techniques to look for these using atomic and molecular spectroscopy, clocks, magnetometers, ion traps, gravimeters, and sensor networks. We will mention both direct-detection strategies and "sneaky" ways to look for DM candidates via the "fifth-force" interactions between standard-model fermions.

**21**

**JUNE 2023**

**2.30 pm (CEST)**

Zoom link: <https://stockholmuniversit.zoom.us/j/2461001998>