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Exploring light dark matter with atomic clocks and magnetometers

Thursday, 23 April 2020 17:30 (30 minutes)

In this talk I'll introduce some ideas to use atomic clocks and co-magnetometers for direct detection of light dark matter candidates. I will describe the leading effects on the devices from scattering with dark matter particles, valid for all dark matter masses below MeV. If time permits, I will also discuss other phenomena happening for ultra-light dark matter candidates.

Presenter: BLAS, Diego (King's college)