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## **Presentation 38: Quantum simulation with cold and hot atomic vapors**

*Friday 26 January 2024 11:35 (10 minutes)*

The main topic of my thesis is the study of the dynamics of ultra-cold atoms; a cloud of atoms will be cooled (laser cooling) to the order of hundreds  $mK$  and trapped using an external magnetic field, hence the name for the experimental apparatus: Magneto-optical-trap. Through this experimental apparatus, I will study the turbulent dynamics of this cloud, in particular, I will study the photon bubble instability and the resulting regime of photon bubble turbulence.

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