

中央大學物理學系

Department of Physics, National Central University



Colloquium

Tick Tock: Pushing Boundaries in Atomic Clocks and Quantum Sensing

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Date: 2024/11/19(Tue)

Venue: S4-625

Time: 14:00-16:00

Abstract: Continuous ultracold atomic sources are becoming essential for next-generation neutral atom quantum hardware, with applications spanning optical atomic clocks, large-scale neutral atom qubit arrays for quantum information, and continuous degenerate quantum gases. In this talk, I will present recent advancements in quantum technologies using neutral alkaline-earth(-like) atoms, highlighting how these developments could enable continuous optical clocks and continuous matterwave lasers for future quantum applications.