

AMO Physics Seminar

Friday, May 8th @ 1:00 PM
Knudsen 6-107

Quantum sensing with trapped ions

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Quantum enhanced sensing allows to detect tiny forces acting on a trapped ion. I will present our recent results on absorption spectroscopy of CaOH^+ by measuring the recoil of a single photon: <https://arxiv.org/abs/2511.19687>. The same sensing techniques can potentially be used to couple free electrons to a quantum computer: <https://arxiv.org/abs/2601.11446>.

Host: Wes Campbell