

References Reference

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1 Introduction

This is a test document. Let's test if this compiles correctly:

This is a potential way of reducing light shift in compact clock systems [1]

This is the first use of vapour cells in atomic clocks / frequency references [2]

A recent review article of 2 photon Rb compact clocks [3]

Sean's thesis - good vapour cell and general reference [4]

French thesis - sean recommends - looks at LCVR and the noise it adds to system [5]

Rachel Cannon's thesis - good explanation of error signals / lock in detection [6]

New paper on short term stability of 87Rb 2 photon clock, nice diagrams [7]

Eilidh's journal club paper - 776nm fluorescence detection [8]

Paper by Aidan and Rachel O on how to characterise noise in an ECDL [9]

Aidan suggestion 2 - Doppler thermometry and how to fit spectra nicely [10]

Steck 87Rb [11]

More interest than anything - a new Python package atomSmltr for simulation laser cooling and MOTs [12]

References

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- [10] Nicola Agnew et al. *Practical Primary Thermometry via Alkali-Metal-Vapour Doppler Broadening*. July 24, 2025. DOI: [10.48550/arXiv.2505.24854](https://doi.org/10.48550/arXiv.2505.24854). arXiv: [2505.24854 \[physics\]](https://arxiv.org/abs/2505.24854). Pre-published.
- [11] *Alkali D Line Data*. URL: <https://steck.us/alkalidata/> (visited on 11/24/2025).
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