





Home ▶ All Journals ▶ Journal of Modern Optics ▶ List of Issues ▶ Volume 65, Issue 5-6 ▶ Absolute frequency measurement of the op ....

Journal of Modern Optics >

Volume 65, 2018 - Issue 5-6: SI: Quantum optics, cooling and collisions of ions and atoms

429 23

1

Views CrossRef citations to date Altmetric

Laser Spectroscopy of Trapped Ions

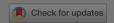
Absolute frequency measurement of the  ${}^{2}S_{1/2} \rightarrow {}^{2}F_{7/2}$  optical clock transition in  ${}^{171}Yb^+$  with an uncertainty of  ${}_{4\times10^{-16}}$  using a frequency link to international atomic time

Charles F. A. Baynham, Rachel M. Godun , Jonathan M. Jones, Steven A. King, Peter B. R. Nisbet-Jones, Fred Baynes, ...show all

Pages 585-591 | Received 30 Jun 2017, Accepted 06 Sep 2017, Published online: 06 Oct 2017

66 Cite this article

https://doi.org/10.1080/09500340.2017.1384514





Full Article

Figures & data

References

**66** Citations

Metrics

➡ Reprints & Permissions

Read this article

### Abstra

The high

candida

absolute

Internati

frequent

of 4.0×1

which wa

**Q** Keywor

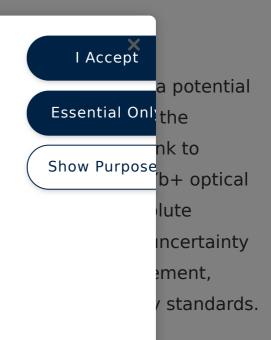
### We Care About Your Privacy

We and our 845 partners store and/or access information on a device, such as unique IDs in cookies to process personal data. You may accept or manage your choices by clicking below, including your right to object where legitimate interest is used, or at any time in the privacy policy page. These choices will be signaled to our partners and will not affect browsing data. <a href="Privacy Policy">Privacy Policy</a>

We and our partners process data to provide:

Use precise geolocation data. Actively scan device characteristics for identification. Store and/or access information on a device. Personalised advertising and content, advertising and content measurement, audience research and services development.

List of Partners (vendors)



View correction statement:

# Acknowledgements

We thank Peter Whibberley for helpful discussions and E. Anne Curtis for critical review of the manuscript prior to submission. We also note that our absolute frequency measurement derives its accuracy from the primary standards operated at other national measurement institutes around the world.

## Notes

No potential conflict of interest was reported by the authors.

# Additional information

## Funding

This work was financially supported by the UK Department for Business, Energy and Industrial Strategy as part of the National Measurement System Programme; the European Metrology Research Programme (EMRP) project SIB55-ITOC; and the



Information for Open access Authors Overview R&D professionals Open journals Editors **Open Select** Librarians **Dove Medical Press** Societies F1000Research Opportunities Help and information Reprints and e-prints Advertising solutions Newsroom Accelerated publication Corporate access solutions Books Keep up to date Register to receive personalised research and resources by email Sign me up Taylor & Francis Group Copyright © 2024 Informa UK Limited Privacy policy Cookies Terms & conditions Accessib X

