

B.Prasanna Venkatesh

Publication List

Complete List of Publications

1. Collective effects in Casimir-Polder forces
K. Sinha, B. Prasanna Venkatesh, and P. Meystre
[arXiv:1803.00977](#)
2. Bistability in a Mesoscopic Josephson Junction Array Resonator
P.R. Muppalla, O. Gargiulo, S.I. Mirzaei, B. Prasanna Venkatesh, M.L. Juan, L. Grünhaupt, I.M. Pop, and G. Kirchmair
[Phys. Rev. B **97**, 024518 \(2018\)](#)
3. On-Chip Quantum Interference of a Superconducting Microsphere
H. Pino, J. Prat-Camps, K. Sinha, B. Prasanna Venkatesh, and O. Romero-Isart
[Quantum Sci. Technol. **3**, 025001 \(2018\)](#)
4. Cooperative Effects in Closely Packed Quantum Emitters with Collective Dephasing
B. Prasanna Venkatesh, M. L. Juan, and O. Romero-Isart
[Phys. Rev. Lett. **120**, 033602 \(2018\)](#)
5. Quantum Performance of Thermal Machines over Many Cycles
G. Watanabe, B. Prasanna Venkatesh, P. Talkner, and A. del Campo
[Phys. Rev. Lett. **118**, 050601 \(2017\)](#)
Marked as Editors' suggestion
Featured in: [Physics](#), [APA](#), [derStandard](#)
6. Attraction-induced dynamical stability of a Bose-Einstein condensate in a nonlinear lattice
R. Dasgupta, B. Prasanna Venkatesh, and G. Watanabe
[Phys. Rev. A **93**, 063618 \(2016\)](#)
7. In situ observation of optomechanical Bloch oscillations in an optical cavity
H. Keßler, J. Klinder, B. Prasanna Venkatesh, C. Georges, and A. Hemmerich
[New J. Phys. **18**, 102001 \(2016\)](#), [Fast track communication](#)
Commisioned perspective on the paper: [Taking a peek at Bloch oscillations](#)
8. An optomechanical elevator: Transport of a Bloch oscillating Bose-Einstein condensate up and down an optical lattice by cavity sideband amplification and cooling
B. Prasanna Venkatesh, J. Goldwin, and D.H.J. O'Dell
[Atoms **4**,2 \(2016\)](#)
9. Scaling Law for Irreversible Entropy Production in Critical Systems
D-T. Hoang, B. Prasanna Venkatesh, S. Han, J. Jo, G. Watanabe, and M-S. Choi
[Scientific Reports **6**, 27603 \(2016\)](#)

10. Quantum fluctuation theorems and power measurements
B. Prasanna Venkatesh, G. Watanabe, and P. Talkner
[New J. Phys. **17**, 075018 \(2015\)](#)
11. Backaction driven transport of Bloch oscillating atoms in ring cavities
J. Goldwin, B. Prasanna Venkatesh, and D. H. J. O'Dell
[Phys. Rev. Lett. **113**, 073003 \(2014\)](#)
12. Generalized energy measurements and modified transient quantum fluctuation theorems
G. Watanabe, B. Prasanna Venkatesh, and P. Talkner
[Phys. Rev. E **89**, 052116 \(2014\)](#)
Marked as Editors' suggestion
13. Quantum fluctuation theorems and generalized measurements during the force protocol
G. Watanabe, B. Prasanna Venkatesh, P. Talkner, M. Campisi, and P. Hänggi
[Phys. Rev. E **89**, 032114 \(2014\)](#)
14. Transient quantum fluctuation theorems and generalized measurements
B. Prasanna Venkatesh, G. Watanabe, and P. Talkner
[New. J. Phys **16**, 015032 \(2014\)](#)
15. Bloch oscillations of cold atoms in a cavity: Effects of quantum noise
B. Prasanna Venkatesh, and D. H. J. O'Dell
[Phys. Rev. A **88**, 013848 \(2013\)](#)
16. Band-structure loops and multistability in cavity QED
B. Prasanna Venkatesh, J. Larson and D. H. J. O'Dell
[Phys. Rev. A **83**, 063606 \(2011\)](#)
17. Atomic Bloch-Zener oscillations for sensitive force measurements in a cavity
B. Prasanna Venkatesh, M. Trupke, E. A. Hinds and D. H. J. O'Dell
[Phys. Rev. A **80**, 063834 \(2009\)](#)

Reviews

1. Nonlinear Phenomena of Ultracold Atomic Gases in Optical Lattices: Emergence of Novel Features in Extended States
G. Watanabe, B. Prasanna Venkatesh, and R. Dasgupta
[Entropy **18**, 118 \(2016\)](#)

Conference Proceedings

1. Cooperative effects between color centers in diamond: applications to optical tweezers and optomechanics
C. Bradac, B. Prasanna Venkatesh, Benjamin Besga, Mattias Johnsson, Gavin Brennen, Gabriel Molina-Terriza, Thomas Volz, and Mathieu L. Juan
[Proc. SPIE **10347**, Optical Trapping and Optical Micromanipulation XIV, 103471I \(2017\)](#)