

Publication list of Prof. Luis Santos

Preprints

1. *Topological inheritance in half-SSH Hubbard models*, S. Mondal, S. Greschner, L. Santos, and T. Mishra, arXiv:2008.07224.
2. *Quantum droplets of dipolar mixtures*, R. N. Bisset, L. A. Peña Ardila, and L. Santos, arXiv:2007.00404.
3. *Quantum Zeno-based detection and state engineering of ultracold polar molecules*, A. Jamadagni, S. Ospelkaus, L. Santos, and H. Weimer, arXiv:1906.09263.

Papers in Journals

4. *Energy localization in interacting atomic chains with topological solitons*, L. Timm, H. Weimer, L. Santos, and T. E. Mehlstäubler, Phys. Rev. Res. (accepted, 2020); arXiv:1910.02135.
5. *Universal algebraic growth of entanglement entropy in many-body localized systems with power-law interactions*, X. Deng, G. Masella, G. Pupillo, and L. Santos, Phys. Rev. Lett. **125**, 010401 (2020); arXiv:1912.08131.
6. *Deconfining disordered phase in two-dimensional quantum link models*, L. Cardarelli, S. Greschner, and L. Santos, Phys. Rev. Lett. **124**, 123601 (2020); arXiv:1910.12829.
7. *Self-bound doubly-dipolar Bose-Einstein condensates*, C. Mishra, L. Santos, and R. Nath, Phys. Rev. Lett. **124**, 073402 (2020); arXiv:1907.08190.

8. *Disorderless quasi-localization of polar gases in one-dimensional lattices* W. Li, A. Dhar, X. Deng, K. Kasamatsu, L. Barbiero, and L. Santos, Phys. Rev. Lett. **124**, 010404 (2020); arXiv:1901.09762.
9. *Heralded Generation of Macroscopic Superposition States in a Spinor Bose-Einstein Condensate*, L. Pezzè, M. Gessner, P. Feldmann, C. Klempt, L. Santos, and A. Smerzi, Phys. Rev. Lett. **123**, 260403 (2019); arXiv:1712.03864.
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12. *Observation of a dipolar quantum gas with metastable supersolid properties*, L. Tanzi, E. Lucioni, F. Fama, J. Catani, A. Fioretti, C. Gabbanini, R. N. Bisset, L. Santos, and G. Modugno, Phys. Rev. Lett. **122**, 130405 (2019); arXiv:1811.02613.
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14. *Creation of entangled atomic states by an analogue of the dynamical Casimir effect*, K. Lange, J. Peise, B. Lücke, T. Gruber, A. Sala, A. Polls, W. Ertmer, B. Juliá-Díaz, L. Santos, and C. Klempt, New J. Phys. **20**, 103017 (2018); arXiv:1805.02560.
15. *Quenched dynamics and spin-charge separation in an interacting topological lattice*, L. Barbiero, L. Santos, and N. Goldman, Phys. Rev. B

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16. *Probing the exchange statistics of one-dimensional anyon models*, S. Greschner, L. Cardarelli, and L. Santos, Phys. Rev. A **97**, 053605 (2018) (Editor's suggestion); arXiv:1802.03970.
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29. *Engineering interactions and anyon statistics by multicolor lattice-depth modulations*, L. Cardarelli, S. Greschner, and L. Santos, Phys. Rev. A **94**, 023615 (2016); arXiv:1604.08829.
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