**COVER IMAGE**

Nonlinear inertial flows usually influence the motion of swimming organisms, but most studies focus on the tractable case of swimmers too small to feel such effects. A mechanistic principle now unifies the varied dynamics of macroscopic swimmers. Letter p758; News & Views p711

IMAGE: MATTIA GAZZOLA

COVER DESIGN: ALLEN BEATTIE

**ON THE COVER****Quantum Control**

Engineering with Zeno dynamics  
Letter p715

**Spectroscopy**

Nonlinear inelastic  
electron scattering  
Letter p753

**Interconnected Networks**

Naturally stable  
Letter p762; News & Views p712

**EDITORIAL**

699 On the money

**COMMENTARY**

700 Together we stand

Ioannis Pavlidis, Alexander M. Petersen and Ioanna Semendeferi

**THESIS**

703 Clear as a Bell

Mark Buchanan

**RESEARCH HIGHLIGHTS**

704 Our choice from the recent literature

**NEWS & VIEWS**

705 Two-dimensional quantum transport: Tunnel vision

Isao H. Inoue

706 Magnetism: Radicals unite

Abigail Klover

707 Quantum memory: Needle in a haystack

Klaus Mølmer

708 Quantum gases: The high-symmetry switch

Alexey V. Gorshkov

709 Carbon nanotubes: Perfect mismatch

João Lopes dos Santos

711 Fluid dynamics: Swimming across scales

Johannes Baumgart and Benjamin M. Friedrich

712 Multilayer networks: Dangerous liaisons?

Ginestra Bianconi

**LETTERS**

715 Confined quantum Zeno dynamics of a watched atomic arrow

Adrien Signoles, Adrien Facon, Dorian Grosso, Igor Dotsenko, Serge Haroche, Jean-Michel Raimond, Michel Brune and Sébastien Gleyzes

720 Protecting a spin ensemble against decoherence in the strong-coupling regime of cavity QED

S. Putz, D. O. Krimer, R. Amsüss, A. Valookaran, T. Nöbauer, J. Schmiedmayer, S. Rotter and J. Majer

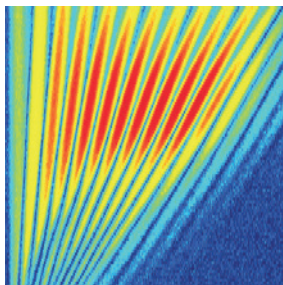
→N&amp;V p707

725 Environment-assisted quantum control of a solid-state spin via coherent dark states

Jack Hansom, Carsten H. H. Schulte, Claire Le Gall, Clemens Matthiesen, Edmund Clarke, Maxime Hugues, Jacob M. Taylor and Mete Atatüre

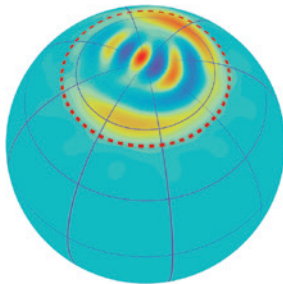
731 Trajectory of the anomalous Hall effect towards the quantized state in a ferromagnetic topological insulator

J. G. Checkelsky, R. Yoshimi, A. Tsukazaki, K. S. Takahashi, Y. Kozuka, J. Falson, M. Kawasaki and Y. Tokura



Hybridized systems offer a promising route for developing quantum devices, but inhomogeneous broadening limits the practical use of large spin ensembles. Suppression of the decoherence induced by such broadening has now been demonstrated for a superconducting cavity coupled to an ensemble of nitrogen-vacancy centres in diamond.

Letter p720; News & Views p707



Repeatedly probing a quantum system restricts its evolution, providing a route for state engineering. Such confinement, described by quantum Zeno dynamics, has now been implemented to generate superposition states in a multi-level Rydberg atom.

Letter p715

**737 Van der Waals-coupled electronic states in incommensurate double-walled carbon nanotubes**

Kaihui Liu, Chenhao Jin, Xiaoping Hong, Jihoon Kim, Alex Zettl, Enge Wang and Feng Wang

→N&V p709

**743 Gate-dependent pseudospin mixing in graphene/boron nitride moiré superlattices**

Zhiwen Shi, Chenhao Jin, Wei Yang, Long Ju, Jason Horng, Xiaobo Lu, Hans A. Bechtel, Michael C. Martin, Deyi Fu, Junqiao Wu, Kenji Watanabe, Takashi Taniguchi, Yuanbo Zhang, Xuedong Bai, Enge Wang, Guangyu Zhang and Feng Wang

**748 Gate-tunable superconducting weak link and quantum point contact spectroscopy on a strontium titanate surface**

Patrick Gallagher, Menyong Lee, James R. Williams and David Goldhaber-Gordon

→N&V 705

**753 Nonlinear inelastic electron scattering revealed by plasmon-enhanced electron energy-loss spectroscopy**

Chun Kai Xu, Wen Jie Liu, Pan Ke Zhang, Meng Li, Han Jun Zhang, Ke Zun Xu, Yi Luo and Xiang Jun Chen

**758 Scaling macroscopic aquatic locomotion**

Mattia Gazzola, Médéric Argentina and L. Mahadevan

→N&V p711

**762 Avoiding catastrophic failure in correlated networks of networks**

Saulo D. S. Reis, Yanqing Hu, Andrés Babino, José S. Andrade Jr, Santiago Canals, Mariano Sigman and Hernán A. Makse

→N&V p712

## ARTICLES

**768 Universal van der Waals physics for three cold atoms near Feshbach resonances**

Yujun Wang and Paul S. Julienne

**774 Quantum criticality of topological phase transitions in three-dimensional interacting electronic systems**

Bohm-Jung Yang, Eun-Gook Moon, Hiroki Isobe and Naoto Nagaosa

**779 Observation of two-orbital spin-exchange interactions with ultracold SU(N)-symmetric fermions**

F. Scazza, C. Hofrichter, M. Höfer, P. C. De Groot, I. Bloch and S. Fölling

→N&V p708

**784 Erratum**

## FUTURES

**786 Wonderful things**

Brian Clegg



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