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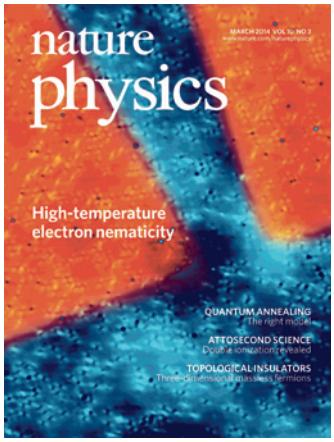

COVER IMAGE

Superconductivity in iron pnictides seems to be related to the formation of electronic nematic phases that break the rotational symmetry of the crystal lattice. But the nematic phase in NaFeAs is now shown to persist at high temperatures owing to the presence of antiferroic fluctuations.
Article p225; News & Views p184

IMAGE: E.P. ROSENTHAL AND CHRISTOPHER GUTIÉRREZ

COVER DESIGN: ALLEN BEATTIE

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Quantum annealing
The right model
Article p218; News & Views p179

Attosecond science
Double ionization revealed
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V. E. Dmitrienko, E. N. Ovchinnikova, S. P. Collins, G. Nisbet, G. Beutier, Y. O. Kvashnin, V. V. Mazurenko, A. I. Lichtenstein and M. I. Katsnelson
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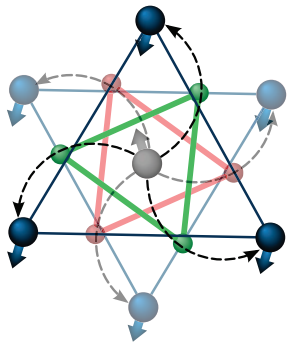
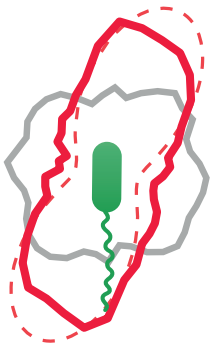


Oxygen-mediated superexchange (or Dzyaloshinskii–Moriya) interactions result in weak ferromagnetism in oxides. A method based on the interference of synchrotron X-ray radiation is now shown to enable the determination of the sign of the Dzyaloshinskii–Moriya interaction in the prototypical weak ferromagnet iron borate.
Letter p202; News & Views p180



Bacteria often reside in fluids. Now, it is shown that hydrodynamic shear, which creates forces and torques on bacterial suspensions, stimulates the attachment of bacteria to surfaces and seriously hinders chemotaxis.
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