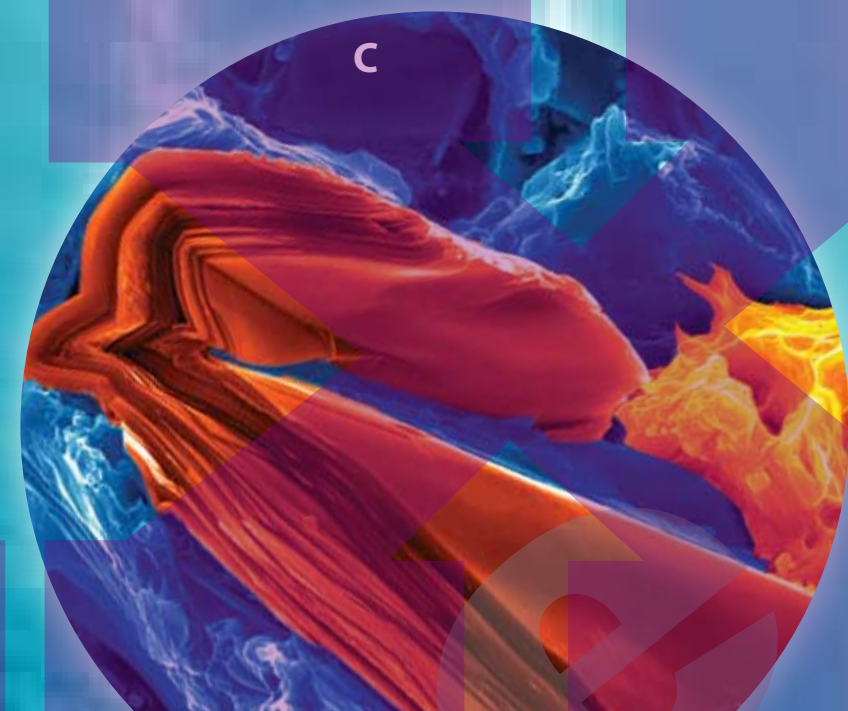


2012



AMERICAN
PHYSICAL
SOCIETY

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JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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DECEMBER

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A: Cross-sectional view of a 30-femtosecond, 1.65-joule laser pulse after propagating 15 meters through air, showing filaments forming in the beam, as well as regions of white light (Phys. Rev. A **83**, 013805 (2011)). B: Jorge Gibert, a Miami physics teacher, works with a student at Florida International University in an introductory physics lab course (Florida International Univ.). C: False-color, scanning electron microscope image of the surface of Mg-Ti₂AlC, showing "kink bands" of Ti₂AlC (red) and nano-crystalline magnesium (blue and orange); B. Anasori & M. W. Barsoum, Drexel Univ.). D: Circuit used to demonstrate cooling a macroscopic vibrating system down to its quantum mechanical ground state; mechanical resonator is the green rectangle below and right of center (E. Lucero, Univ. of Calif., Santa Barbara). E: Calculated distribution of magnetic field penetrating a type-II superconducting film, showing a "flux avalanche" that appears when the applied field reaches a critical value (Phys. Rev. B **84**, 054537 (2011)). F: A 4 nm deep crater in a polymer solar cell from a hot and fast aluminum anode evaporation (Brett Guralnick, Univ. of Delaware). G: Cryostat for cooling accelerator parts for the future International Linear Collider during testing at Fermilab (Fermilab Visual Media Services). H: Ferrofluid sandwiched between two clear, circular plates, immersed in a magnetic field and lit by a ring of colored LED lights (Michael M. Snyder, Univ. of Louisville). I: The Aharonov-Bohm effect, with electron beams (blue lines) passing around opposite sides of an electromagnet that generates negligible external magnetic fields (purple) but significant electromagnetic potential (green circles and arrows; Physics Today **62**, 38 (2009), AIP). J: Computation of the structure generated in a low-viscosity fluid after a vortex crashes into a boundary wall (Phys. Rev. Lett. **106**, 184502 (2011)). Background: Calculation of the momentum distribution of an electron at a single time during the ionization of H₂⁺ by laser light (Phys. Rev. A **83**, 051401 (2011)).