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041001 *Colloquium*: Atomic spin chains on surfaces
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041002 *Colloquium*: The physics of axion stars
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041003 *Colloquium*: Ice rule and emergent frustration in particle ice and beyond
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045001 Shortcuts to adiabaticity: Concepts, methods, and applications
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045002 Machine learning and the physical sciences
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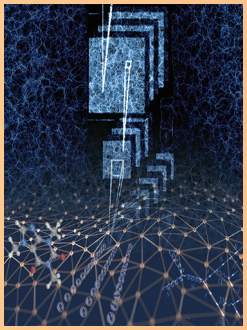
045003 Jet substructure at the Large Hadron Collider
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045004 Nonequilibrium physics in biology
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045005 Odd-frequency superconductivity
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049901 Publisher's Note: *CP* violation in the B_s^0 system [Rev. Mod. Phys. **88**, 45002 (2016)]
Marina Artuso, Guennadi Borissov, and Alexander Lenz

049902 Erratum: Axions and the strong *CP* problem [Rev. Mod. Phys. **82**, 557 (2010)]
Jihn E. Kim and Gianpaolo Carosi



Recent progress on applying machine learning to physics touches many areas of physics and brings contributions back to machine learning. [Giuseppe Carleo *et al.*, Rev. Mod. Phys. **91**, 045002 (2019)]

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