**COVER IMAGE**

How do flocks of birds remain cohesive while dodging predators? A study tracking up to 400 starlings reveals that information propagates in a linear fashion and with no attenuation, meaning that the language of phase transitions in correlated materials can be used to describe flocking behaviour. Article p691

IMAGE: EDWARD SHEN AND COBBS LAB, ISC-CNR, ROME

COVER DESIGN: ALLEN BEATTIE

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**Artificial spin ice**  
Topologically induced vertex frustration  
Article p670; News & Views p623

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Approximation for fast state estimation  
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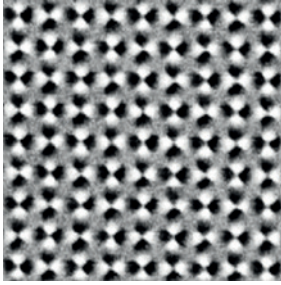
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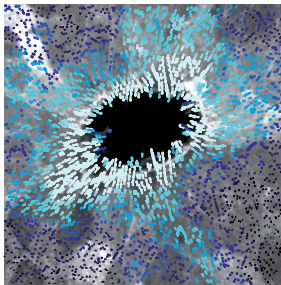
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The shakti lattice describes a new type of frustration not found in naturally occurring materials. Fabrication of the first artificial spin-ice array displaying shakti dynamics confirms the locally ordered, globally degenerate nature of these exotic lattice structures. Article p670; News & Views p623



Wound repair is thought to involve cell migration and the contraction of a tissue-level biopolymer ring — invoking analogy with the pulling of purse strings. Traction-force measurements now show that this ring engages the tissue's surroundings to steer migration, prompting revision of the purse-string mechanism. Article p683; News & Views p626

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