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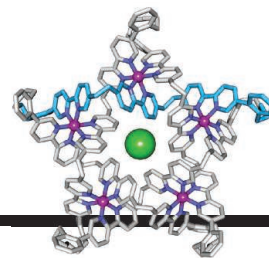
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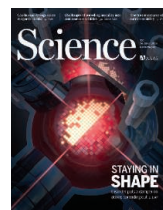
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Artist's interpretation of ultracold atoms trapped in a disordered two-dimensional lattice formed by laser light. Researchers observed a sudden arrest of the quantum spreading of atoms through single-atom-resolved snapshots, indicating an unconventional localized phase of matter. Such a phase defies a traditional description through statistical physics, posing new challenges to physicists. See page 1547. *Image: C. Bickel/Science*

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