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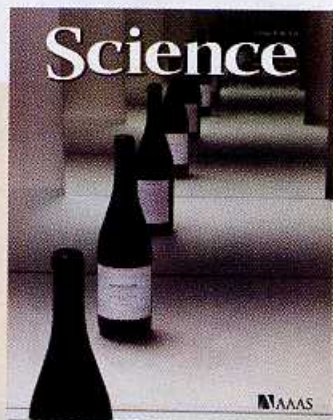
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COVER

Multiple images of an object located between two nearly parallel mirrors illustrate the principle of superradiant emission of x-rays. If an ensemble of atoms between two mirrors is resonantly excited by synchrotron radiation, the atoms interact collectively to emit a fast x-ray photon pulse that exhibits a redshift of its frequency, known as the collective Lamb shift. See page 1248.

Photo: Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany/Boris Kumicak

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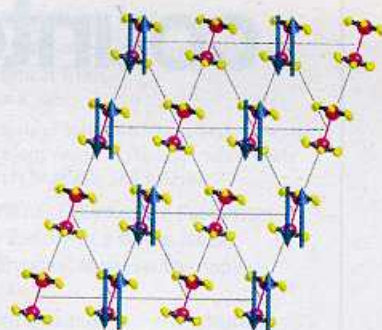
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