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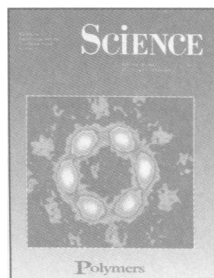
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COVER Small-angle neutron scattering pattern obtained from a diblock copolymer after the application of an oscillatory shearing deformation. The hexagonal symmetry of the scattered neutrons derives from the long-range ordering of cylindrical microdomains (see p. 898). This issue of *Science* focuses on the physics and chemistry of polymers. [Data and image by K. Almdal, K. Mortensen, and F. S. Bates at the Riso National Laboratory in Denmark]

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