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**COVER** Resonant-mass gravitational radiation detector. Energetic astrophysical events, such as supernovae, can produce gravity wave pulses that may induce small mechanical strains in the 4800-kilogram aluminum bar. The bar is suspended in a vacuum chamber and cooled to 4.2 kelvins to reduce background noise. See page 150. [Photography by John Long, Palo Alto, CA 94301]

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