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Multiple-quantum NMR spectroscopy probes magnetic interactions in a network of coupled nuclei by recording the collective response of a group of coherently excited spins. The spectrum in the center, obtained from polycrystalline adamantane, shows resonances arising from the net absorption and emission of up to 60 quanta of electromagnetic radiation. See page 525. [Spectrum by J. Baum, M. Munowitz, A. N. Garroway, and A. Pines. Cover design by M. Munowitz and R. Dennis, Technical Information Division, Lawrence Berkeley Laboratory, Berkeley, CA 94720]