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Dynamics of Linked and Knotted Vortices DUSTIN KLECKNER, MARTIN SCHEEGER, WILLIAM T. M. IRVINE, University of Chicago — Recently developed experimental methods have allowed us to generate topologically linked fluid vortices for the first time. The intrinsically geometric nature of vortex dynamics allows us to measure physical quantities, such as energy, by reconstructing the core centerline in three-dimensions using high-speed laser scanning tomography. This novel approach offers insights into the evolution of linked and knotted vortices up to and through changes in topology.