Abstract Submitted
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Three-Compoment Coreless Vortices in a Spinor BEC[1] L. SUZANNE LESLIE, University of Rochester, Institute of Optics, AZURE HANSEN, KEVIN WRIGHT[2], NICK BIGELOW, University of Rochester, Physics Department — We present experimental results of three-component coreless vortices with winding number $w_i = (0, 1, 2)$ created in the $F = 2$ manifold of ^{87}Rb using an optical vortex coupling technique. Examples of vortices across a range of relative spatial distributions and spin state populations will be shown, and their vorticity confirmed through interference.

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