

## Visualization of Quantum Turbulence

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The evolution of the quantized-vortex tangle in superfluid  $^4\text{He}$ , also known as quantum turbulence, is dominated by reconnection and ring collapse. We visualize the dynamics of quantized vortices and the normal component using micron and nano-sized ice particles. We review past results obtained tracking these particles, including a direct confirmation of the two-fluid model, a distinction between classical and quantum turbulence, and the characterization of vortex rings, vortex reconnections and thermal counterflow. We discuss the reconnection dynamics and the particle-vortex interaction, presenting the latest theoretical, numerical and experimental results from our group.