## 24th Australian Institute of Physics Congress



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## Mutual friction and diffusion of two-dimensional quantum vortices

Monday 12 December 2022 14:30 (15 minutes)

We present a microscopic theory of thermally-damped vortex motion in oblate atomic superfluids, providing a microscopic origin for the damping and Brownian motion of quantized vortices in two-dimensional atomic superfluids, which has previously been limited to phenomenology.

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