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Progress toward uncovering the spin of a vortex

Monday 12 December 2022 12:00 (15 minutes)

By adopting a Maxwell-Einstein picture of a (2+1)-dimensional superfluid it is predicted that vortex quasiparticles (kelvons) posses an intrinsic spin. We examine the possibility of implementing topological nonabelian geometric phases on such kelvon spins.

Author: JOHANSEN, Emil **Presenter:** JOHANSEN, Emil

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