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## [142] Vortex Counting and Velocimetry for Slitted Superconducting Thin Strips

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At low magnetic fields, the approach to deduce the energy relaxation times from current-voltage curves fails. The problem arises given the fact that the number of vortices, deduced from the applied magnetic field only, is in fact larger. Here, we provide a method to count the number of vortices in samples at zero magnetic field. Experiments were performed on MoSi samples with focused ion beam milled-out slits. Every time the number of vortices crossing the sample is increased by one, a current-voltage kink appears. The number of kinks corresponds to the number of vortices. This information allows one to correct the previously unphysical energy relaxation times at low magnetic fields.

**Theoretical Work** 

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