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Critical current oscillations in superconducting Al strips[1] TYLER MORGAN-WALL, BENJAMIN LEITH, NIKOLAUS HARTMAN, ATIKUR RAHMAN, NINA MARKOVIC, Johns Hopkins University — We have studied current-voltage characteristics as a function of temperature and magnetic field in superconducting aluminum strips with varying lengths and cross sections. We find that the critical current oscillates as a function of magnetic field and suggest that the effect depends on the relative energies of vortex configurations in the strips in different transport regimes.

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