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Center-vortex semiclassics on $\mathbb{R}^2 \times T^2$ and large- N adiabatic continuity

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When the 4d $SU(N)$ Yang-Mills theory is put on $\mathbb{R}^2 \times T^2$ with a nontrivial 't Hooft flux, qualitative features of confinement can be semiclassically described as the gas of center-vortex fractional instantons. We study the condition for the large- N adiabatic continuity via a suitable choice of the N -dependent 't Hooft flux from the viewpoint of both 0-form and 1-form center symmetry.

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