Contribution ID: **12** Type: **not specified**

Center-vortex semiclassics on R2xT2 and large-N adiabatic continuity

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.

Author: TANIZAKI, Yuya (Yukawa Institute for Theoretical Physics, Kyoto University)

Presenter: TANIZAKI, Yuya (Yukawa Institute for Theoretical Physics, Kyoto University)