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Yang-Mills/QCD on R2xT2, adiabatic continuity, and eta' potential

Wednesday 24 September 2025 11:00 (1 hour)

We show that 4d Yang-Mills/QCD can be semi-classically solved on R2xT2 with nontrivial 't Hooft flux. In this setup, 4d instanton splits into N center-vortex fractional instantons, and its dilute gas describes qualitative features of 4d confinement vacua via the adiabatic continuity. When we apply this technique to QCD with fundamental quarks, we can learn about the global structure of the eta' potential.

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