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Center vortices as composites of monopole fluxes

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We study the relation between the flux of a center vortex obtained from the vortex model and the flux formed between monopoles obtained from the Abelian gauge fixing method.

Motivated by the Monte Carlo simulations which have shown that almost all monopoles are sitting on the top of vortices, we combine different fluxes of monopoles and obtain the flux of center vortices for $SU(2)$ and $SU(3)$ gauge groups and compare the results with the Monte Carlo data.

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