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Smearing Center Vortices

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We present a method to smear (center projected) $Z(2)$ vortices in order to obtain properties of the original (full) $SU(2)$ configurations. In particular we address the problem that $Z(2)$ configurations cannot be treated with overlap (or chirally improved) fermions due to their lack of smoothness. We develop a method to regain this smoothness and simultaneously maintain the center vortex structure. We verify our method with various gluonic and fermionic observables.

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