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## **Bulk-preventing actions for $SU(N)$ gauge theories**

*Thursday, July 29, 2021 1:00 PM (15 minutes)*

We introduce a one-parameter family of  $SU(N)$  gauge actions which, when used in combination with an HMC update algorithm, prevent the gauge system from entering an artificial bulk-“phase”. We briefly discuss the (presumed) mechanism behind the bulk-prevention and present test results for different  $SU(N)$  gauge groups.

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