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A better conditioned Domain Wall Operator

Tuesday, 4 August 2020 14:00 (20 minutes)

A variation of the Domain Wall operator with an additional parameter α will be introduced. The conditioning of the new Domain Wall operator depends on α, whereas the corresponding 4D propagator does not. The new and the conventional Domain Wall operator agree for $\alpha = 1$. By tuning α, speed ups of the linear system solvers of around 20% could be achieved.

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