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zMobius and other recent developments on Domain Wall Fermions

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Recent advances in hardware, combined with various deflation techniques has made it crucial to optimize not only for solver performances, but also for memory and disk footprint to keep the overall efficiency high. Here we report on advances in Domain Wall Fermion formalism(DWF), such as zMobius which achieves a good approximation to the scaled Shamir DWF with smaller extent in 5th dimension, and delayed deflation technique which eliminates the need for the source projection by using predetermined approximation for the inverse.

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