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Partial twisting for scalar mesons

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The possibility of imposing partially twisted boundary conditions is investigated for the scalar sector of lattice QCD.

According to the commonly shared belief, the presence of quark-antiquark annihilation diagrams in the intermediate state generally hinders the use of the partial twisting. Using effective field theory techniques in a finite volume, and studying the scalar sector of QCD with total isospin $I = 1$, it is demonstrated that partial twisting can still be performed, despite the fact that annihilation diagrams are present. The modified Luescher equation in case of partial twisting is given.

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