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Chiralspin symmetry and its implications for QCD

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Chiralspin $SU(2)_{CS}$ and $SU(2N_F)$ symmetries are symmetries of the fermionic charge operator and of the chromo-electric interaction in QCD. They contain as subgroups chiral symmetries of the QCD lagrangian. In addition to the chiral transformations they include a mixing of the left- and right-handed components of quarks. They emerge in QCD upon truncation of the near-zero modes of the Dirac operator as well as at high temperatures which has profound implications.

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