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Tetraquarks and the chiral phase transition

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We consider how tetraquarks can affect the chiral phase transition for light quarks coupled to SU(3) color. For two flavors the tetraquark field is an isosinglet, and its effect is minimal. For three flavors, however, the tetraquark field transforms in the same representation of chiral symmetry as the usual chiral order parameter, and so for very light quarks there may be {\it two} chiral phase transitions, both of first order.

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