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Proving chiral symmetry breaking in QCD with 't Hooft anomaly matching

Chiral symmetry breaking in QCD is a well-established phenomenon, yet it has been a challenge to derive this phenomenon from the theoretical viewpoint. In the seminal 1979 Cargese lectures, 't Hooft showed how to use anomaly matching to prove chiral symmetry breaking, he showed some examples but didn't give the general proof. In this talk, I will present a new strategy which can lead to a general proof.

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