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Application of new anomaly to QCD vacua

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Recent developments of anomaly matching allows us to study the new nonperturbative aspects of various gauge theories. In this talk, I will show that there is a new 't Hooft anomaly for QCD with massless quarks containing the two-form gauge fields. This will give new constraints on the possible chiral symmetry breakings, and I will revisit the Stern phase (chiral symmetry broken phase without quark bilinear condensate) from this viewpoint.

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