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Euler anomaly from central charge flow in $N=1$ gauge theories and beyond

Tuesday, August 30, 2016 3:00 PM (30 minutes)

It is based on <https://arxiv.org/abs/1511.03868> as well as work which should appear soon.

Summary

I will discuss how the RG-running of the gauge coupling can be absorbed into the metric for $N=1$ gauge theories by using the Konishi anomaly. The central charge between the UV and IR fixed point is then computed, using the construction of Komargodski and Schwimmer, within a free field theory. The non-trivial dynamics emerges from expanding the geometric quantities such as the Euler term confirming an earlier result in the literature. I will discuss how to make use of these techniques in non-supersymmetric gauge theories aka QCD-like gauge theories.

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