Contribution ID: **269**   Type: **not specified**

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

Tuesday 30 August 2016 15:00 (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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Session Classification: Section G

Track Classification: Section G: Strongly Coupled Theories