

# Holography, 1-Form Symmetries, and Confinement

*Wednesday 14 July 2021 10:00 (30 minutes)*

I will discuss 1-form symmetries in the context of holographic duals to confinement. Revising the Klebanov-Strassler solution, we determine the origin of the 1-form symmetry in dual gravity solution. From the consistent truncation of the supergravity, we derive the chiral symmetry breaking as well as the mixed 't Hooft anomaly between the chiral symmetry and 1-form symmetry. In the far IR, the supergravity analysis furthermore allows deriving the TQFT that describes the gapped, confining phase.

**Presenter:** Prof. SCHAFER-NAMEKI, Sakura (University of Oxford)