

Special TEP Seminar

UCLA

Wednesday, January 25 @ 11:00 AM

Physics & Astronomy Building (PAB) 4-330

The twisted superpotential of 3d $N=2$ theories

Brian Willett (UCSB)

We consider the effective twisted superpotential of 3d $N=2$ gauge theories compactified on a circle. This is a rich, duality-invariant observable which encodes much of the protected information in these theories. We review its properties, and survey some applications, including deriving the quantum algebra of Wilson loop operators, computing a wide class of supersymmetric partition functions, and studying the reduction of 3d dualities to two dimensions.