

S. Domokos

TITLE: A Modified Probe Limit And A New Window Into Holography Defect CFTs

ABSTRACT: Brane intersections have long been the bread and butter of holography. In addition to shedding light on strongly coupled defect- and boundary-CFTs, these models lie at the core of many holographic QCD and CMT models. Here I describe a modified version of the so-called probe approximation for a broad class of non-abelian supersymmetric brane intersections in the holographic limit, where the open strings on the probe  $D_q$  branes not only decouple, but they are also well-described by a tree-level Yang-Mills theory in curved space. This regime is particularly useful for studying these systems' intricate vacuum structure, which I describe for several types of intersections, and localized finite-energy soliton states, which I will touch on briefly for the special case of  $D3/D5$  intersections.