\*\*\* Miguel Montero

## Title: Reflections on 7-branes

Abstract: The principle of absence of global symmetries in quantum gravity can be used to predict the existence of new objects in a theory, which break all global symmetries. I will describe how this can be applied to type IIB string theory in one particular case, concluding the existence of a "reflection 7-brane", which is non-supersymmetric. I will describe what we know about the construction, worldvolume theory, stability, duality properties, and provide independent holographic evidence for its existence as the brane that implements charge conjugation in the (2,0) SCFT's.