

Speaker: Adi Armoni (Swansea University)

Title: Nambu-Goldstone Dynamics from Type IIB S-duality

Abstract: Following earlier works by Uranga and Sugimoto, I will consider a non-supersymmetric setup of coincident O3 plane and N anti D3 branes. The gauge theory on the brane is an 'electric' $Usp(2N)$ with four two-index antisymmetric fermions. It expects to confine and to break the global $SU(4)$ symmetry to $SO(4)$. The 'magnetic' S-dual theory is $SO(2N-1)$ with 6 adjoint scalars. I will show how the Nambu-Goldstone bosons are manifest in the magnetic theory and will derive the GMOR relation using background fluxes.