

Special Time

Center For Neutrino Physics Seminar

Luigi Tizzano

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The 5d geometric Langland's Twist

Wednesday, May 3rd, 2017

2:30pm - 3:30pm

304 Robeson Hall

In this talk I will present a twisted version of maximally supersymmetric Yang-Mills theory in five dimensions which share some aspects of the theory introduced by Kapustin and Witten in their study of geometric Langlands correspondence. The spectrum of physical observables is characterized by electric-magnetic duality, in particular I will explain the central role played by monopole defects in this context. Finally, I will discuss a string theory realization of the twist using branes wrapping calibrated cycles in a local Calabi-Yau geometry.