Seminar/Talk

Branes on moduli spaces of sheaves

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Branes are special submanifolds of hyperkhler manifolds that play an important role in string theory, particularly in the Kapustin-Witten approach to the geometric Langlands program, but which also are of intrinsic geometric interest. More precisely, a brane is a submanifold of a hyperkhler manifold which is either complex or Lagrangian with respect to each of the three complex structures or Khler forms composing the hyperkahler structure. Branes on moduli spaces of Higgs bundles have been largely studied by many authors; in this talk, I will summarize recent work done in collaboration with Franco, Marchesi, and Menet on the construction of different types of branes on moduli spaces of framed sheaves on the projective plane, on moduli spaces of sheaves on K3 and abelian surfaces, and on the moduli spaces of Higgs bundles via Nahm transform.

Wednesday, October 25, 2017 03:00pm - 05:00pm

Big Seminar room Ground floor / Office Bldg West (I21.EG.101)