Geometry, Topology, and Physics Seminar

Holomorphic-topological gauge theories, sigma-models and duality

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Room 6635 South Hall

Abstract: Any finite N=2 fourdimensional gauge theory on a product of two Riemann surfaces C_1 and C_2 can be twisted into a holomorphic-topological theory which depends only on the complex structure on C_1 and is invariant under arbitrary diffeomorphisms of C_2. This leads to an interesting connection between 4d gauge theories and twisted 2d sigma-models.

Information about future meetings of this seminar can be found at
http://www.math.ucsb.edu/~malmendier/GTPseminar/