



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

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Abstract

Since early 1980s, gauge theory and symplectic geometry have played an important role in understanding the topology of 3 and 4dimensional manifolds. Some very powerful topological invariants have been introduced using moduli spaces of solutions to certain geometric PDEs. Despite their seemingly different constructions, some of these invariants from gauge theory and symplectic geometry exhibit very similar properties. The aim of this talk is to explain the general philosophy behind their equivalence. This is joint work with YiJen Lee and Clifford H. Taubes.

Date: Monday, May 16, 2011

Time: 15:00

Place: IMBM Seminar Room, Boğaziçi University

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