Yang-Mills connections on orientable and nonorientable surfaces

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Abstract

In “The Yang-Mills equations over Riemann surfaces”, Atiyah and Bott studied Yang-Mills functional over a Riemann surface from the point of view of Morse theory. I will review the work of Atiyah and Bott and describe generalization to closed nonorientable surfaces based on joint work with Nan-Kuo Ho and Daniel Ramras. I will also survey some results on topology of moduli spaces of bundles over orientable and nonorientable surfaces derived from Morse theory.

Tuesday, 16 November 2010
(please note change of day!)
4:00 pm
Smith Hall 204
Tea and refreshments will be served at 3:45pm.

http://math.newark.rutgers.edu/~xiaowwan/Colloquium/