

Topology, Arithmetic, & Dynamics Seminar

Strange duality of non-abelian theta functions.

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The space of non-abelian theta functions/conformal blocks associated to a complex semisimple Lie group G is a generalization of the space of classical theta functions. Strange duality is a duality between these spaces for two different groups. Strange duality for vector bundles with fixed determinant was proved by P. Belkale and by A. Marian-D. Oprea. For symplectic bundles, it was proved by T. Abe. Strange duality for some maximal subgroups of E_8 are also known. In this talk, we discuss a conjectural strange duality for odd Spin and orthogonal bundles and the existence of a Hitchin type connection for twisted moduli spaces. This is a joint work with R. Wentworth. If time permits, we will also discuss a strange duality between G_2 and F_4 -theta functions.

Date: **Friday, February 5, 2016**

Time: **2:30-3:30pm**

Place: **4106 Exploratory Hall**

For special accommodations, please contact Sean Lawton via email at slawton3@gmu.edu.