Geometry, Groups and Dynamics/GEAR Seminar (held at the Illinois hub of GEAR)

12:00 pm, Tuesday, March 15, 2016, 243 Altgeld Hall

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SO(n,n+1) surface group representations

Abstract: In this talk I will discuss a parameterization of n(2g-2) connected components of the SO(n,n+1) character variety of a closed surface of genus g. We will see how this parameterization generalizes both Hitchin's parameterization of the Hitchin component as a vector space of holomorphic differentials of degree 2,4,...,2n and Hitchin's parameterization of the nonzero Toledo invariant components of the PSL(2,R)=SO(1,2) Higgs bundle moduli space by holomorphic quadratic differentials twisted by an effective divisor.

Video (unavailable)