

Geometry/Topology Seminar

Foliations in $PSL(4,R)$ -Teichmüller theory

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Abstract: We will present a classification of group-invariant foliations of a domain of discontinuity for $PSL(4,R)$ -Hitchin representations whose leaves are properly convex domains in projective spaces. Two foliations of this form are the starting point of Guichard-Wienhard's beautiful framework to describe the projective geometry of $PSL(4,R)$ -Hitchin representations; the main result is that there is exactly one other similar foliation. We will emphasize how the special structure of Hitchin representations can be used to understand the shape of these domains of discontinuity, and the role this plays in the proof.

Contact edumas@uic.edu if you want to join the seminar dinner

Wednesday, October 30 at 3:00 PM in 427 SEO