

Geometry/Topology Seminar

Pleated surfaces in $PSL_d(C)$

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Abstract: Pleated surfaces are an important tool introduced by Thurston to study hyperbolic 3-manifolds and can be described as piecewise totally geodesic surfaces, bent along a geodesic lamination. Bonahon studied this notion and described a holomorphic parametrization of these open charts of the $PSL(2,C)$ -character variety in term of 'shear-bend cocycles'.

In this talk I will discuss joint work with Martone, Mazzoli and Zhang, where we generalize this theory to representations in $PSL(d,C)$. In particular, I will describe the notion of d -pleated surfaces, and their holomorphic parametrization and some open questions and future directions of work.

We will have a Seminar dinner. If you're interested in joining please email David Dumas who will be organizing it.

Wednesday, November 8 at 3:00 PM in 636 SEO