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Global topology of the space of d -pleated surfaces

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The notion of a d -pleated surface is a higher rank generalization of (abstract) pleated surfaces in three dimensional hyperbolic space. We give a description of the global topology of the space of conjugacy classes of d -pleated surfaces. We also prove that every connected component of the character variety contains exactly one connected component of the space of d -pleated surfaces. This is joint work with Sara Maloni, Giuseppe Martone, and Filippo Mazzoli.

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