

ABSTRACT:

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Ultralimits of maximal representations

A representation of the fundamental group of an hyperbolic surface in the symplectic group $\mathrm{Sp}(2n, \mathbb{R})$ is called maximal if it maximizes the so called Toledo invariant. Maximal representations form interesting and well studied components of the character variety generalizing the Teichmüller component, that is encompassed in the case $n=1$. Given an unbounded sequence of maximal representations one naturally gets an action on an affine building. I will describe geometric properties of such actions, discussing in particular which elements can act with a fixed point. Joint work with Marc Burger.