« Théories de jauge, monopoles, espaces de modules et systèmes intégrables »
Une conférence en l'honneur de Jacques Hurtubise, à l'occasion de son 60e anniversaire
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Action of the Mapping Class Group on Character Varieties and Higgs Bundles

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We consider the action of the mapping class group of a compact surface S of genus $g > 1$ on the character variety of the fundamental group of S in a connected semisimple real Lie group G. We identify the fixed points of the action of a finite subgroup Γ of the modular group on the character variety, in terms of G-Higgs bundles equipped with a certain twisted Γ-equivariant structure on a Riemann surface $X = (S, J)$, where J is an element in the Teichmüller space of S for which Γ is included in the group of holomorphic or antiholomorphic automorphisms of X. This generalizes work of Nasatyr & Steer, Furuta & Steer, Andersen & Grove, and joint work of the author with Biswas and Hurtubise.

This is joint work with Graeme Wilkin.

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