

Atelier : « LES ESPACES DE MODULES ET LEURS INVARIANTS EN PHYSIQUE MATHÉMATIQUE »
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Workshop: “MODULI SPACES AND THEIR INVARIANTS IN MATHEMATICAL PHYSICS”
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Moduli spaces of vector bundles over a real curve

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In a seminal paper from the '80s, Atiyah and Bott calculated the Betti numbers of the moduli space of holomorphic bundles over a complex curve using Morse theory of the Yang-Mills functional. In this talk, I will explain how to adapt the Atiyah–Bott method to calculate $\mathbb{Z}/2$ -Betti numbers of the moduli space of real/quaternionic vector bundles over a real curve.

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