

Twisted groups, loop groups and some moduli spaces

To study the space of bundles on a Riemann surface (or algebraic curves), one of the most important results has been the so called uniformization theorem. This result says that these spaces can be viewed as a quotient of the space of all maps of the circle into a Lie group. A similar result has been conjectured by Pappas and Rapoport for spaces of bundles equipped with different types of extra structure. We would like to explain, what these are, how they are related to twisted loop groups and why the general setup allows to give a short proof of the conjecture.

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