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The Prym-Hitchin connection

This talk is a continuation of the talk by Thomas Baier presenting an algebraic construction of the Hitchin connection on the sheaf of non-abelian theta functions. I will give an application of this construction to the case of anti-invariant vector bundles over a curve equipped with an involution. This case can also be viewed as an example of torsors under some parahoric group scheme. I also give examples for low rank bundles and low genus curves.

This is joint work with T. Baier, M. Bolognesi, J. Martens and H. Zelaci.