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Rafe Mazzeo* (mazzeo@math.stanford.edu), Dept. of Mathematics, Stanford University, Stanford, CA 94305, **Hartmut Weiss**, , Germany, **Jan Swoboda**, , Germany, and **Frederik Witt**, , Germany. *Ends of moduli spaces of Higgs bundles.*

This will be a report on some recent progress on understanding solutions of Hitchin's equations on Riemann surfaces. The main result is a new construction of solutions of these equations which are "near infinity" in the moduli space, and the consequences of this construction for understanding the asymptotics of the Weil-Petersson metric on this moduli space. (Received September 02, 2014)