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p-adic integration for the Hitchin system

I will report on joint work with D. Wyss and P. Ziegler. We prove a conjecture by Hausel-Thaddeus which predicts an agreement of appropriately defined Hodge numbers for moduli spaces of Higgs bundles for the structure groups $SL(n)$ and $PGL(n)$ over the complex numbers. Despite the complex-analytic nature of the statement our proof is entirely arithmetic.