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Sean Howe* (sean.howe@utah.edu). *New spaces of p -adic automorphic forms.*

Traditionally, spaces of p -adic automorphic forms are constructed through the p -adic interpolation of algebraic avatars of complex automorphic forms. In this talk, we explain a new perspective, in which p -adic automorphic forms exist on an equal footing with complex automorphic forms, with both occurring as spaces of functions on Igusa moduli spaces; here the interpolation properties are a secondary consequence of uniformization theorems for Shimura varieties. As an application, we deduce some new results about modular forms. (Received January 08, 2020)