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## **David LOEFFLER. $p$ -adic L-functions and Euler systems for $\mathrm{GSp}(4)$ .**

*Thursday, June 27, 2019 2:30 PM (1 hour)*

Abstract: I will explain how the higher Hida theory recently introduced by Pilloni can be used to construct  $p$ -adic L-functions interpolating the critical values of the degree 4 (spin) L-functions of automorphic forms on  $\mathrm{GSp}(4)$ , and the degree 8 L-functions of cusp forms on  $\mathrm{GSp}(4) \times \mathrm{GL}(2)$ . This is joint work with Vincent Pilloni, Chris Skinner and Sarah Zerbes. I will conclude by describing work in progress to relate the  $\mathrm{GSp}(4)$   $p$ -adic L-function to the images of Euler system classes under the  $p$ -adic syntomic regulator map