Derived analytic moduli of Galois representations with shifted symplectic structures

Jonathan Pridham

University of Edinburgh

I will explain how to construct derived versions of analytic moduli functors for Galois representations and ell-adic local systems. These can incorporate an additional grading using Tate twists, and then arithmetic duality theorems give rise to twisted shifted symplectic and Lagrangian structures on various moduli stacks of representations.