

The Chinta-Gunnells action and sums over highest weight crystals

Anna Puskas, University of Massachusetts Amherst

In this talk we will discuss how Sage can be used for exploring questions related to the study of p -adic metaplectic (Iwahori)-Whittaker functions and prime power coefficients of Weyl group multiple Dirichlet series. These objects have constructions as sums over highest weight crystals, as well as sums over reflection groups in various Cartan types. The computation of versatile examples of the constructions in Sage is helpful in phrasing and testing relevant conjectures on this topic.