

SPEAKER: Jennifer Johnson-Leung (University of Idaho)

TITLE: The structure of the paramodular Hecke algebra

ABSTRACT: In this talk, I will introduce the local paramodular Hecke algebra of prime level p and give a presentation of this graded \mathbb{Z} -algebra in terms of generators and relations. This result follows from explicit formulas for the product of each generator with any double coset. As an application, we obtain rationality results at the level of characters with the expected denominators for characters corresponding to paramodular eigenforms. This is joint work with Joshua Parker and Brooks Roberts.