Ben Kane
Mathematical Institute, University of Cologne

Mock modular forms as $p$-adic modular forms

Abstract: In this talk we investigate properties of the coefficients of mock modular forms. After an appropriate correction term related to the shadow of the mock modular form, one sees interesting congruences related to modular forms. We will see that these congruences arise because a mock modular form combines with the Eichler integral of its shadow to produce a $p$-adic modular form.