

**Amanda Folsom**

Amherst College

will speak on

**Mock modular and quantum modular forms**

ABSTRACT: The subject of mock modular forms has seen many advances over the course of the last decade. While relatively new, the origins of the subject date back to Hardy and Ramanujan. In this talk we will first discuss the general history and theory that has developed. We will then prove one of Ramanujan's remaining claims about mock theta functions in his last letter to Hardy. In our work, quantum modular forms, defined by Zagier in 2010, play a key role, as do certain well-known combinatorial functions. This is joint work with Ken Ono (Emory U.) and Rob Rhoades (CCR-Princeton).

MONDAY, APRIL 13, 2015

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3:40 PM

ROOM 617, WACHMAN HALL

DEPARTMENT OF MATHEMATICS