1147-11-351　　　　**Amanda Folsom*** (`afolsom@amherst.edu`). *Quantum modular forms and applications.*

The subject of quantum modular forms is a relatively new and emerging subject. These functions are not truly modular in the traditional sense, but the way in which they fail to be modular exhibits rich analytic behavior. In this talk, we'll give a brief accessible introduction to the subject of quantum modular forms, and will discuss some applications in number theory and other fields of mathematics. (Received January 21, 2019)