1135-11-745 **Amanda Folsom***, Amherst College, Amherst, MA 01002. *Quantum modular forms and quantum Jacobi forms.*

Quantum modular forms were defined by Zagier in 2010; they are similar to mock modular forms in that they feign modularity in some way, with the notable exception that their domain is not the upper half-plane, but rather the rational numbers. Questions of interest to many have been to understand spaces of quantum modular forms, determine explicit examples of and sources of quantum modular forms, and to understand the relationship – if any – between quantum modular and mock modular forms. In this talk we discuss these problems and the developing theory of quantum modular forms. In particular, we discuss the notion of a quantum Jacobi form as defined by the author and Bringmann in 2016. We also offer compelling examples with combinatorial origins, and corollaries pertaining to the evaluation of Eichler integrals. (Received September 13, 2017)