

1129-11-395 **Amanda Folsom*** (afolsom@amherst.edu), Department of Mathematics, Amherst College,
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Mock modular forms were first formally defined in the literature by Zagier in 2007, though their roots trace back to Ramanujan's mock theta functions from 1920. Zagier also defined quantum modular forms in 2010; they are like mock modular forms in that they feign modularity in some way, but they are not, a priori, defined on the upper-half of the complex plane. In this talk, we will discuss recent connections made between these two developing subjects over the past few years by Bringmann, Ono, Rhoades, Rolin, Zagier and others. As an application of these theories, we will also discuss connections to combinatorics and partitions, and a claim made by Ramanujan. (Received March 20, 2017)