1128-11-51 Chris Jennings-Shaffer and Holly Swisher\*, swisherh@math.oregonstate.edu. Mock modularity of a generalized rank for overpartitions.

We investigate the modular properties of a new family of partition ranks for overpartitions, which gives both the Dyson overpartition rank and the  $M_2$  overpartition rank as special cases. We show that the generating function for these overpartition ranks is the holomorphic part of a certain harmonic Maass form of weight  $\frac{1}{2}$ , and give precise transformation formulas for this Maass form along with a few rank generating function identities. This work is joint with Chris Jennings-Shaffer. (Received February 06, 2017)