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David Penniston* (pennistd@uwosh.edu). *Congruences for k -regular partition functions*. Preliminary report.

Classically k -regular partitions appear as labelings of certain representations of the symmetric group. More recently the arithmetic of k -regular partition functions has received attention, in particular divisibility properties similar to those of Ramanujan for the unrestricted partition function (with some interesting connections to objects from arithmetic geometry appearing along the way). In this talk we present recent work on congruences for k -regular partition functions. (Received July 24, 2014)