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**Riad Masri\*** ([masri@math.tamu.edu](mailto:masri@math.tamu.edu)). *Harmonic weak Maass forms and the partition function.*

Recently, Bruinier and Ono discovered a finite algebraic formula for the Hardy-Ramanujan partition function  $p(n)$ . Starting with this formula, we will explain how methods from the spectral theory of automorphic forms can be used to obtain a new asymptotic formula for  $p(n)$  with a power saving in the error term. (Received November 29, 2012)