1086-26-1219 **DoYong Kwon*** (doyong@jnu.ac.kr), Department of Mathematics, Chonnam National University, Gwangju, 500-757. *Moments of discrete measures with dense jumps induced by β-expansions.*

Let $\beta > 1$. Through an appeal to β-expansions we define a strictly increasing and left-continuous function μ_β on $[0, 1]$. Then μ_β turns out to be a pure jump distribution. In other words, its associated Lebesgue-Stieltjes measure is discrete, i.e., a summation of point masses. The present talk studies the moment of this discrete measure. We express the moment in terms of Bernoulli numbers and polylogarithms, and investigate its asymptotics as well. (Received September 20, 2012)