## **FERNANDO KASUN**, University of Maryland, College Park An Error Term in the Central Limit Theorem for Sums of Discrete Random Variables

We consider sums of independent identically distributed random variables whose distributions have d + 1,  $(d \ge 2)$  atoms. Such distributions never admit an Edgeworth expansion of order d but we show that for almost all parameters the Edgeworth expansion of order d - 1 is valid and the error of the order d Edgeworth expansion is typically of order  $n^{-d/2}$ . This is a joint work with Dmitry Dolgopyat.