

1096-60-959

Yizao Wang* (yizao.wang@uc.edu), 2815 Commons Way, Department of Mathematical Sciences, Cincinnati, OH 45221, and **Zakhar Kabluchko**. *Limit laws of maximal normalized set-indexed sum of heavy-tailed random variables*. Preliminary report.

We consider the maximum of a collection of normalized set-indexed sums of i.i.d. random variables with heavy tails. We establish limit laws of the maximum, when the sums are indexed by rectangular sets of \mathbb{Z}^d . This generalizes the work of Mikosch and Rackauskas (2010). If time permits, we talk about the problem with more general index sets. (Received September 11, 2013)