ANTAL JARAI, Carleton University, School of Math. & Stat., 1125 Colonel By Drive, Ottawa, ON, Canada, K1S 5B6 *Geometric bounds on the Uniform Spanning Forest in high dimensions*

We prove volume and resistance estimates for the Uniform Spanning Forest in \mathbb{Z}^d in dimensions $d \ge 5$. We give estimates on the upper and lower tail behaviour of the number of edges in the component of the origin inside a Euclidean ball of radius R, when this quantity is rescaled by R^4 . The bounds can be used to study random walk restricted to a component of the Uniform Spanning Forest.