LARGE DEVIATIONS AND DISCONNECTION FOR RANDOM INTERLACEMENTS

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In this talk I will describe results obtained in two recent articles in collaboration with Xinyi Li concerning large deviations for the occupation-time profile in a large box of Z^d, $d \geq 3$, for random interlacements at a given level, and the probability that random interlacements disconnect a macroscopic body from infinity, when the vacant set is in the percolative regime.