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Deviation of Capacity of the Range of Random Walk

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We study the capacity of the range of a simple random walk in three and higher dimensions. It is known that the order of the capacity of the random walk range in n dimensions is similar to that of the volume of the random walk range in n-2 dimensions. We find the specific difference between the law of the iterated logarithm and large deviation for the capacity of the random walk range and the volume. This is joint work with Arka Adhikari (Stanford), and Amir Dembo (Stanford).

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