## 1161-05-205 Alan Frieze and Tomasz Tkocz<sup>\*</sup>, Carnegie Mellon University, Pittsburgh, PA 15213. Shortest paths with a cost constraint: a probabilistic analysis.

We consider a constrained version of the shortest path problem on the complete graphs whose edges have independent random lengths and costs. We shall sketch how to establish the asymptotic value of the minimum length as a function of the cost-budget within a wide range. (Received August 17, 2020)