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Minimizing asymptotic score in random bullseye darts for i.i.d. throws

We present current work—motivated by considerations of the energy of random Voronoi diagrams—on the score in a certain game of darts with both a random bullseye and random throws. We discuss the convergence properties as the number of throws tends to infinity and the asymptotically optimal distribution for the player assuming i.i.d. throws. Curiously, the moments of the score under optimal play in this sense bear a simple relation to the asymptotically optimal quantizers of the bullseye distribution.