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Minimizing asymptotic score in random bullseye darts

We explore the problem of minimizing the expected score in a certain game of random bullseye darts. Given the bullseye distribution, which among a specified class of joint distributions for the n throws yields the optimal expected score? The asymptotics for i.i.d. throws are well understood. We are interested in whether or not certain natural joint distributions strictly improve upon the i.i.d. case and in this talk we present new general methods for studying this question and related problems.