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On the Distribution of large values of L-functions at the edge of the critical strip

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In this talk we will construct a class of probabilistic random Euler products to study large values of various families of L-functions at the edge of the critical strip. In particular this class includes the random models constructed recently by A. Granville and K. Soundararajan to study large values of the Riemann zeta function and Dirichlet L -functions on the 1-line. Among new applications, we study families of symmetric power L -functions of holomorphic cusp forms in the level aspect (assuming the automorphy of these L -functions) at $s = 1$, functions in the Selberg class (in the height aspect), and the family of L -functions of quadratic twists of a fixed $GL(m)/\mathbb{Q}$ -automorphic cusp form at $s = 1$.