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Moments and hybrid subconvexity for symmetric-square L-functions

I will discuss some recent work on moment problems for symmetric-square L-functions. One application of this work is a hybrid subconvexity result for these L-functions, and another is a short interval Lindelof-on-average bound. I will also discuss some of the motivation for these problems, which relates these L-functions to the equidistribution of cusp forms on the modular surface. This is joint work with Rizwan Khan.