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Mean values of long Dirichlet polynomials

Shifted moments of the Riemann zeta function and the $2k$ -th moments of the Riemann zeta function may be modelled by mean values of Dirichlet polynomials with higher divisor coefficients. In this talk I will discuss a conjecture of Conrey and Keating (2015) on the asymptotic size of these mean values. I will also report on joint work with Alia Hamieh in which we establish special cases of the Conrey-Keating conjecture under the assumption of an additive divisor conjecture for higher divisor functions.