

CONSIDERATIONS OF THE SIXTH POWER MOMENT OF THE RIEMANN ZETA FUNCTION

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ABSTRACT: Our goal (joint work with Brian Conrey) is to evaluate integrals of the sixth power of partial sums of the Riemann zeta function and apply the results to improve the classical zero-density estimate due to Ingham. The main arguments are conditional subject to specific bounds for sums of products of Kloosterman sums.

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