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ON THE ZEROS OF THE RIEMANN ξ-FUNCTION

George Csordas and Chung-Chun Yang

Abstract. Necessary and sufficient conditions for the validity of the Riemann Hypothesis are established in terms of the sum of the reciprocal squares of the zeros of the Riemann ξ-function. Numerical work, in conjunction with density estimates, involving the first 100,000 zeros of the Riemann ξ-function are presented.

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George Csordas, Department of Mathematics, University of Hawaii, Honolulu, HI 96822
E-mail Address: george@math.hawaii.edu
Chung-Chun Yang,Department of Mathematics, Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong
E-mail Address: mayang@ust.hk