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J Brian Conrey* (conrey@aimath.org), 360 Portage Ave, Palo Alto, CA 94306. *The combinatorics of n -correlation.*

The zeros of the Riemann zeta-function are spaced like the eigenvalues of unitary matrices, as seen from Montgomery's work on the pair correlation of the zeros and from Rudnick and Sarnak's work on the n -correlation. The combinatorics in the latter paper to make this connection are somewhat roundabout. In joint work with Nina Snaith we give a new natural approach to unravel these combinatorics. (Received November 27, 2012)