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# A Supersymmetric Transfer Matrix Approach to Random Band Matrices

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**Abstract.** We shall describe several problems related to random band matrices, focusing on the density of states. Following Disertori–Pinson–Spencer ('02), the density of states for a class of random band matrices can be represented as a functional integral. We study this integral in 1D using a transfer matrix. The talk is based on joint work with M. Disertori and T. Spencer.