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Jonathan Stanfill* (jonathan_stanfill@baylor.edu). *The Jacobi operator and its Weyl–Titchmarsh–Kodaira m -functions*. Preliminary report.

Abstract: We discuss Weyl–Titchmarsh–Kodaira m -functions and generalized boundary conditions for singular Sturm–Liouville operators. We will then illustrate the theory by considering the Jacobi operator and constructing some of its associated Weyl m -functions. The focus of this talk will be conditions that lead to the Jacobi polynomials for different choices of parameters.

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