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Maxim Derevyagin, Anastasiia Minenkova* (anastasiia.minenkova@uconn.edu) and
Nathan Sun. *A Theorem of Joseph-Alfred Serret and its Relation to Perfect Quantum State
Transfer.*

In this talk we recast the Serret theorem about a characterization of palindromic continued fractions in the context of polynomial continued fractions. Then, using the relation between symmetric tridiagonal matrices and polynomial continued fractions we give a quick exposition of the mathematical aspect of the perfect quantum state transfer problem. (Received January 07, 2022)