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## A Riemann-Hilbert approach to q-discrete Painlevé equations

Monday, June 28, 2021 10:20 AM (40 minutes)

The Riemann-Hilbert method provides a powerful framework for describing solutions of the classical Painlevé equations and semi-classical families of orthogonal polynomials. In this talk, I will give an overview and describe some recent results that show how to extend the framework to describe solutions of q-discrete Painlevé equations and q-orthogonal polynomials. (This is based on collaborative work with Tom Lasic Latimer and Pieter Roffelsen; see arXiv:1911.05854 and arXiv:2106.01042.)

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