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Interpolation, integrals, and indices

Thursday, July 1, 2021 4:30 PM (40 minutes)

There is an interesting topology behind such classical questions as interpolation and solving linear q-difference equations by integrals. It has to do with counting algebraic curves in some very specific geometries, which can be also phrased as computing indices in certain (2+1) dimensional supersymmetric QFTs. In particular, the q-difference equations appear as q-analogs of the Dubrovin connection. The talk will be an introduction to this circle of ideas.

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