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Discrete Painlevé Equation and Four-dimensional Gauge Theories

Monday 4 February 2019 14:00 (1 hour)

We discuss special solutions for the Hirota-type bilinear identity for the E8 discrete Painlevé equation and its "lens-generalization". The key identity is provided by transformation formulas for the lens-elliptic gamma function, which were first found via the Seiberg dualities in $4d\ \mathcal{N} = 1$ theories, and studied in connection with the super-master solution of the star-triangle relation.

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