

SIDE 14.2



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On q -Painlevé VI and the Geometry of Segre surfaces

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Content :

For each of the differential Painlevé equations, the Riemann-Hilbert correspondence maps its solution space onto an affine cubic surface. In recent work with Nalini Joshi, a q -analog was established for the q -Painlevé VI equation, where the associated algebraic surface is an affine Segre surface. In this talk, I will discuss this result and explain how the geometry of the Segre surface relates to different aspects of the q -Painlevé VI equation.

Primary authors : Prof. JOSHI, Nalini (The University of Sydney) ; Dr. ROFFELSEN, Pieter (The University of Sydney)

Co-authors :

Presenter : Dr. ROFFELSEN, Pieter (The University of Sydney)

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