

Exponential Asymptotics of Difference and Differential Equations

June 6 (Mon) – June 8 (Wed), 2016

Room No. 110 of RIMS, Kyoto University

June 6, Monday

13:00 – : *Session on “Discrete Painlevé Equations”*

Nalini Joshi (Sydney)

Geometric asymptotic of discrete Painlevé equations

Yousuke Ohyama (Tokushima)

q -Painlevé equations and q -Stokes phenomenon of linear q -difference equations

Toshiyuki Mano (Ryukyu)

Asymptotic behaviors of solutions to the q -Painlevé VI equation

June 7, Tuesday

09:30 – : *Session on “Hyperasymptotic Analysis”*

Chris J. Howls (Southampton)

Airey on Airy: Postponing the Inevitable

Chris Lustri (Sydney)

Finding the Stokes structure of discrete equations using late-order terms

13:00 – : *Session on “Hypergeometric Difference Equations”*

Yoshifumi Katsushima (Tokyo)

A connection problem of the hypergeometric difference equation

Takeshi Morita (Kobe)

On first order q -difference equations and divergent bilateral basic hypergeometric series

15:30 – : *Session on “ q -Difference PDEs”*

Hidetoshi Tahara (Sophia Univ.)

Summability of formal solutions of some linear q -difference partial differential equations

Hiroshi Yamazawa (Shibaura Institute of Technology)

Singular solutions of q -difference-differential equations of the Briot-Bouquet type

June 8, Wednesday

09:30 – : *Session on “Exact WKB Analysis and Quantum Physics”*

Akira Shudo (Tokyo Metropolitan Univ.)

Anomalous behavior of transition matrix elements in nonintegrable quantum maps

Shinji Sasaki (Kindai Univ.)

TBA

13:00 – : *Session on “Exact WKB Analysis and Painlevé Equations”*

Yoshitsugu Takei (RIMS, Kyoto)

Toward the exact WKB analysis of systems of differential-difference equations