## 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.)

On parametric Stokes phenomena of higher order linear ODEs

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