Workshop on

Algebraic analysis and Asymptotic analysis in Hokkaido

Organizer Naofumi HONDA (Hokkaido) and Shingo KAMIMOTO (Hiroshima)

May 16(Wed.) $\sim$ 18(Fri.), 2018
Science Building No.4, Room 4-501,
Department of Mathematics, Hokkaido University

Program

May 16, Wednesday

14:15 - 15:00 Reinhard Schäfke (Strasbourg, France)
          Remarks on parametric resurgence
15:15 - 16:00 Yumiko Takei (Kobe)
          Exact WKB analysis for (confluent) hypergeometric differential equations of second and third
          order in terms of topological recursion
16:15 - 17:00 Hiroshi Yamazawa (Shibaura)
          Genuine and formal solutions of some linear q-difference-differential equations

May 17, Thursday

10:00 - 10:45 Naofumi Honda (Hokkaido)
          Application of the theory of Čech-Dolbeault cohomology to hyperfunctions
          - several morphisms of embedding -
11:00 - 11:45 Daichi Komori (Hokkaido)
          Intuitive representation of local cohomology groups
13:45 - 14:30 Shingo Kamimoto (Hiroshima)
          Multisummability for strongly regular sequences
14:45 - 15:30 Kohei Umeta (Nihon)
          A vanishing theorem of global cohomology groups with values in the sheaf of Whitney jets
          with Gevrey conditions
15:45 - 16:30 Yasunori Okada (Chiba)
          Diagonal embedding method and resolvent calculus in the coupling theory

May 18, Friday

10:00 - 10:45 Susumu Yamazaki (Nihon)
          To be announced
11:00 - 11:45 Nobuyuki Ota (Chiba)
          To be announced
13:45 - 14:30 Yoko Umeta (Josai)
          On the Stokes geometry of a unified family of P_{J}-hierarchies ($\mathrm{J} = \mathrm{I}, \mathrm{II}, \mathrm{IV}, 34$)
14:45 - 15:30 Mika Tanda (Kwansei Gakuin)
          The confluent hypergeometric functions and WKB solutions
15:45 - 16:30 Luca Prelli (Padova, Italy)
          Multi-specialization and multi-asymptotics