

Ireland-Japan Workshop 2006

Date: 18 - 20 December, 2006

Place: Koseito, Yagami Campus,
Keio University, Yokohama

Sponcers: Center for Integrative Mathematical Sciences: The 21st Century COE Program at Keio
Grants-in-Aid for Scientific Research 18634003(Yoshiaki Maeda)

Organizer: Jurgen Berndt (University College Cork)
Martin Guest (Tokyo Metropolitan University)
Yoshiaki Maeda (Keio University)

December 18

- 13:00-14:00 **Hiroshi Tamaru (Hiroshima University)**
Cohomogeneity one actions on symmetric spaces of rank one, and of higher rank
- 14:30-15:30 **Tatsuya Tate (Nagoya University)**
A spectral analogue of asymptotics of the number of partitions
- 16:00-17:00 **Michel Stolz (Rhur University)**
On random elements of compact symmetric spaces

December 19

- 10:00-11:00 **Alfonso Garcia-Saz (Keio University)**
Symbols of functions of operators and higher-order Bohr-Sommerfeld rules
- 11:30-12:30 **Ramiro Carrillo (Tokyo Metropolitan University)**
Pfaffian systems from twistor fibrations
- 14:00-15:00 **Martin Guest (Tokyo Metropolitan University)**
Pfaffian systems from harmonic maps
- 15:30-16:30 **Keizo Yamaguchi (Hokkaido University)**
Parabolic Geometries associated with Differential Equations of Finite Type
- 17:00-18:00 **Benjamin McKay (University College Cork)**
Smooth projective planes and symplectic topology

December 20

- 10:00-11:00 **Toru Morimoto (Nara Women University)**
Graded Lie algebras, geometric structures and differential equations on filtered manifolds
- 11:30-12:30 **Hajime Sato (Nagoya University)**
Orbits of differential equations under actions of diffeomorphism groups
- 14:00-15:00 **Toshikazu Miyashita (Komoro High School)**
 \mathfrak{g} -graded decompositions of exceptional Lie algebras \mathfrak{g} of type E_7 and group realizations of \mathfrak{g}_{ev} , \mathfrak{g}_0 and \mathfrak{g}_{od}
- 15:30-16:30 **Dmitri Zaitsev (Trinity College)**
Which manifolds bound Levi-flat hypersurfaces?