

The 16th Osaka City University International Academic Symposium 2008
“Riemann Surfaces, Harmonic Maps and Visualization ”

PROGRAM

December 15 (Monday) Media Center 1F

14:00- Registration & Information

Warming Up Lectures (for graduate students etc.)

15:00-16:15 Motohico Mulase (University of California, Davis, USA)

“Again Riemann surfaces ? Still Riemann surfaces ?

Yes, Riemann surfaces forever ! ”

16:45-18:00 Wayne Rossman (Kobe University, Japan)

“Discrete surfaces and architecture”

December 16 (Tuesday) Media Center 10F Conference Hall L

8:45- Entrance

9:10-9:15 Opening Remarks (by chairman of organizing committee)

9:15-9:25 Opening Speech by President of Osaka City University
Professor Satoru Kaneko

9:30-10:30 Ulrich Pinkall (Technische Universität Berlin, Germany)

“Conformal equivalence of triangulated surfaces”

10:45-11:45 Masaaki Umehara (Osaka University, Japan)

“Surfaces with singularities and Osserman-type Inequalities ”

12:00-13:00 Josef Dorfmeister (Technische Universität München, Germany)

“Loop groups and surfaces with symmetries”

14:30-15:30 Bertrand Eynard (Service de Physique Theorique Orme des Merisiers CEA Saclay, France)

“Random matrix methods in enumerative geometry”

15:45-16:45 Kefeng Liu (University of California, Los Angeles, USA)

“Recent results on the geometry and topology of moduli spaces”

17:00-18:00 Hiraku Nakajima (Kyoto University, Japan)

“Instanton counting (survey)”

18:15-20:15 Banquet (Media Center 10F)

December 17 (Wednesday) Media Center 10F Conference Hall L

- 8:30- Entrance
- 9:00 - 10:00 Yasuyuki Nagatomo (Kyushu University, Japan)
“Harmonic maps into Grassmannian manifolds”
- 10:15-11:15 John C. Wood (University of Leeds, UK)
“A completely explicit formula for harmonic spheres in the unitary group”
- 11:30-12:30 Sumio Yamada (Tohoku University, Japan)
“Weil-Petersson geometry of Teichmüller-Coxeter Complex ”
- 14:00-14:45 Tim Hoffmann (Technische Universität München & Kyushu University, Germany)
“The Steiner formula, curvature and discrete surfaces”
- 14:55-15:40 Shoichi Fujimori (Fukuoka University of Education, Japan)
“Triply periodic minimal surfaces bounded by vertical symmetry planes ”
- 15:50-16:35 Katrin Leschke (University of Leicester, UK)
“Hamiltonian stationary Lagrangian tori in \mathbf{C}^2 revisited”
- 16:45-17:30 Bennet Palmer (Idaho State University, USA)
“Anisotropic surface energies ”
- 17:40-18:25 John Bolton (University of Durham, UK)
“Minimal 2-spheres with various symmetry properties in the round 4-sphere”

December 18 (Thursday) Media Center 10F Conference Hall L

- 8:30- Entrance
- 9:00-10:00 Ryoichi Kobayashi (Nagoya University, Japan)
“An interpretation of the period condition of algebraic minimal surfaces from the view point of lemma on logarithmic derivative”
- 10:15-11:15 Mark Haskins (Imperial College London, UK)
“A panoply of special Lagrangian singularities”
- 11:30-12:30 Hironori Sakai (Tokyo Metropolitan University, Japan)
“Normalization of differential equations associated to orbifold quantum cohomology”
- 14:00-15:00 Armen Sergeev (Steklov Mathematical Institute, Russia)
“Quantization of the Universal Teichmüller Space”
- 15:15-16:15 Andrey Domrin (Moscow University, Russia)
“Meromorphic extension of solutions of soliton equations ”
- 16:25-17:10 Toshihiro Nogi (Osaka City University, Japan)
“On holomorphic sections of a holomorphic family of Riemann surfaces of genus two”
- 17:20-18:05 Yu Kawakami (Kyushu University & OCMI, Japan)
“Recent progress in the value distribution of the hyperbolic Gauss map”

December 19 (Friday) Media Center 10F Conference Hall L

- 8:30- Entrance
- 9:00-10:00 Craig A. Tracy (University of California, Davis, USA)
“The Asymmetric Simple Exclusion Process : Integrable Structure and Limit Theorems”
- 10:15-11:15 Hao Xu (Zhejiang University, P.R.China)
“Intersection numbers on the moduli spaces of stable curves”
- 11:30-12:30 Motohico Mulase (University of California, Davis, USA)
“An integrable system approach to the newly discovered topological recursion”
- 14:00-15:00 Iskandar Taimanov (Novosibirsk, Russia)
“The Moutard transformation and blowing up solutions of the Novikov-Veselov equation ”
- 15:15-16:15 Andrey Mironov (Sobolev Institute of Mathematics, Russia)
“Spectral data for Hamiltonian-minimal Lagrangian tori in $\mathbf{C}P^2$ ”
- 16:30-17:15 Katsuhiko Moriya (University of Tsukuba, Japan)
“Super-conformal surfaces in the Euclidean four space in terms of null complex holomorphic curves ”
- 17:30-18:15 Tetsuya Taniguchi (Kitasato University, Japan)
“Fourier-Mukai transforms and spectral data of harmonic tori into compact symmetric spaces”

December 20 (Saturday) Media Center 10F Conference Hall L

- 8:30- Entrance
- 9:00-10:00 Franz Pedit (University Tuebingen, Germany & University of Massachusetts, USA)
“Global aspects of integrable surface geometry”
- 10:15-11:15 Martin Kilian (University of College Cork, Ireland)
“On the Lawson Conjecture”
- 11:30-12:30 Martin Ulrich Schmidt (University of Mannheim , Germany)
“On the Moduli of Alexandrov embedded cmc cylinders in S^3 ”
- 14:00-14:45 Emma Carberry (University of Sydney, Australia)
“Almost-complex tori in the 6-sphere”
- 15:00-16:00 Francis Burstall (University of Bath, UK)
“Conserved quantities in geometric integrable systems”

December 20 (Saturday)

市民公開講座 「数学とコンピュータ」(Public Lectures “Mathematics and Computer”)
学情 1F 文化交流室 (Media Center 1F)

- 16:30-17:20 ティム ホフマン Tim Hoffmann (ミュンヘン工科大学 & 九州大学
Technische Universität München & Kyushu University)
山田光太郎 Kotaro Yamada (九州大学 Kyushu University)
“コンピュータ・グラフィックスの数学
(Mathematics Behind Computer Graphics)”
- 17:30-18:20 酒井高司 Takashi Sakai (大阪市立大学数学研究所 OCAMI)
大仁田義裕 Yoshihiro Ohnita (大阪市立大学 Osaka City University)
マーティン ゲスト Martin Guest (首都大学東京 Tokyo Metropolitan University)
“3D-XplorMath への招待 -コンピュータで見る数学の世界-
(Invitation to 3D-XplorMath - Mathematical World Visualized by Computer -)”