

# Geometry of Moduli Space of Low Dimensional Manifolds

December 14–18, 2015

Room 420, RIMS, Kyoto University

Access: <http://www.kurims.kyoto-u.ac.jp/en/access-01.html>

## Program

Monday, December 14

- 9:30-10:30 **Athanase Papadopoulos** (University of Strasbourg, IRMA)  
“On the arc metric on Teichmüller space I”
- 10:40–11:40 **Athanase Papadopoulos** (University of Strasbourg, IRMA)  
“On the arc metric on Teichmüller space II”
- 13:10–14:10 **Christian Bär** (University of Potsdam)  
“Index theory on Lorentzian manifolds I”
- 14:20-15:20 **Christian Bär** (University of Potsdam)  
“Index theory on Lorentzian manifolds II”

Tuesday, December 15

- 9:30-10:30 **Ilya Kapovich** (University of Illinois at Urbana-Champaign)  
“Dynamics and geometry of fibered 3-manifolds and  
of free-by-cyclic groups I”
- 10:40–11:40 **Ilya Kapovich** (University of Illinois at Urbana-Champaign)  
“Dynamics and geometry of fibered 3-manifolds and  
of free-by-cyclic groups II”
- 13:10-14:10 **Krishnendu Gongopadhyay** (IISER, Mohali)  
“Conjugation classes of pairs in  $SL(4, \mathbb{C})$  and  $SU(3,1)$ ”
- 14:20-15:20 **Kei Funano** (Kyoto University)  
“Estimates of eigenvalues of Laplacian  
by a reduced number of subsets I”
- 15:30–16:30 **Kei Funano** (Kyoto University)  
“Estimates of eigenvalues of Laplacian  
by a reduced number of subsets II”

Wednesday, December 16

- 9:30-10:30 **Suhyoung Choi** (KAIST)  
“Compactifications of Margulis space-times”
- 10:40-11:40 **William Goldman** (University of Maryland)  
“Dynamical systems arising from mapping class group actions on moduli spaces I”
- 11:50-12:50 **William Goldman** (University of Maryland)  
“Dynamical systems arising from mapping class group actions on moduli spaces II”

Thursday, December 17

- 9:30-10:30 **Samuel Lelievre** (Université Paris-Sud)  
“Flat surfaces: rigidity, blocking, illumination I”
- 10:40-11:40 **Samuel Lelievre** (Université Paris-Sud)  
“Flat surfaces: rigidity, blocking, illumination II”
- 13:10-14:10 **Takahiro Kitayama** (Tokyo Institute of Technology)  
“Representation varieties detect essential surfaces”
- 14:20-15:20 **Martin Bridgeman** (Boston College)  
“The Pressure metric for Anosov representations I”
- 15:30-16:30 **Martin Bridgeman** (Boston College)  
“The Pressure metric for Anosov representations II”

Friday, December 18

- 9:30-10:30 **Yoshihiro Ohnita** (Osaka City University)  
“Harmonic maps of Riemann surfaces into symmetric spaces and their moduli spaces I ”
- 10:40-11:40 **Yoshihiro Ohnita** (Osaka City University)  
“Harmonic maps of Riemann surfaces into symmetric spaces and their moduli spaces II ”
- 13:10-14:10 **Viktor Schroeder** (University of Zürich)  
“Möbius structures on the boundary of hyperbolic spaces I ”
- 14:20-15:20 **Viktor Schroeder** (University of Zürich)  
“Möbius structures on the boundary of hyperbolic spaces II”

Supported in part by JSPS Grant-in-aid for Scientific Research  
No.22244005 クライン群とタイヒミュラー空間の大域幾何的研究  
(基盤研究 (A) 代表者：大鹿健一)  
No.24340009 低次元多様体モジュライ空間の新展開  
(基盤研究 (B) 代表者：山田澄生)