SwissMAP
The Mathematics of Physics
National Centre of Competence in Research

Chaos, Holography and Coadjoint Orbits

Villa Battelle (Université de Genève) – February 25- March 01, 2019

Monday, February 25

10:00-10:45	Julian Sonner : *Introduction and overview I*
10:45-11:15	**Coffee break**
11:15-12:00	Julian Sonner : *Introduction and overview II*
12:00-13:30	**Lunch Break**
13:30-14:30	Samson Shatashvili : *String Field Theory, Factorization and Gravitational Wess-Zumino*
14:30-15:00	**Coffee Break**
15:00-16:00	Herman Verlinde: *TBA*
16:15	Battelle Seminar (optional)

Tuesday, February 26

9:30-10:30	Yilin Wang : *The Loewner energy for simple loops*
10:30-11:00	**Coffee Break**
11:00-12:00	Krzysztof Gawedzki: *A simple class of non-equilibrium states in 1+1-dimensional CFT and characters of Diff(S^1)*
12:00-14:00	**Lunch Break**
14:00-15:00	Jean-Michel Bismut : *Hypoelliptic Laplacian, probability and coadjoint orbits*
15:00-15:30	**Coffee Break**
15:30-16:30	Pranjal Nayak : *Coadjoint orbit action of Virasoro group and two-dimensional quantum gravity dual to SYK/tensor models*

Wednesday, February 27

9:30-10:30	Kristan Jensen : *De Sitter and SYK*
10:30-11:00	**Coffee Break**
11:00-12:00	Thomas Mertens **:** *Jackiw-Teitelboim gravity and the Schwarzian*
12:00-14:00	**Lunch Break**
14:00-15:00	Gideon Vos : *Thermalization, the 2d identity block, and coadjoint orbits*
15:00	Excursion : Visit of the Tavel House & Geneva Old Town Guided Tour
19:30	Conference Dinner : Fondue at the Buvette des Bains

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Thursday, February 28

9:30-10:30	Alexander Altland: *Quantum Ergodicity of the Sachdev-Ye-Kitaev Model*
10:30-11:00	**Coffee Break**
11:00-12:00	Manuel Vielma : *Eigenstate thermalization in the Sachdev-Ye-Kitaev model*
12:00-13:30	**Lunch Break**
13:30-14:30	Claire Zukowski : *Kinematic Space and the Orbit Method*
14:30-14:45	**Coffee Break**
14:45-15:45	Hong Liu : *Maximally chaotic quantum many-body systems and hydrodynamics*
16:15	Maths colloquium by Richard Thomas : *Counting things: enumerative algebraic geometry from physics* (room 17 – Acacias Centre*)

Friday, March 01

9:30-10:30	Razvan Gurau : *On fixed points in tensor field theories*
10:30-11:00	**Coffee break**
11:00-12:00	Frank Ferrari : *New IR Behaviour in Melonic Quantum Mechanics*
12:00-14:00	**Lunch Break**
14:00-15:00	Blagoje Oblak : *Virasoro Berry Phases in the KdV Equation*
15:00-15:30	**Coffee Break**

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