

Winter School in Mathematical Physics 2024

Les Diablerets – January 7-12, 2024

Sunday, January 7

19:00 | **Dinner**

Monday, January 8

9:00-9:50 | Francis Brown, "Feynman Integrals and Number Theory": Lecture 1

9:50-10:10 | **Coffee break**

10:10-11:00 | Eveliina Peltola "Interplay of Schramm-Loewner evolution curves with conformal field theory": Lecture 1

11:10-12:00 | Maxim Zabzine, "Equivariant localization in quantum field theory": Lecture 1

12:15 | **Lunch**

16.30 | **Coffee break at Les Sources**

17:10-18:00 | Francis Brown, "Feynman Integrals and Number Theory": Exercises 1

18:10-19:00 | Francis Brown, "Feynman Integrals and Number Theory": Lecture 2

19:15 | **Dinner**

Tuesday, January 9

9:00-9:50 | Eveliina Peltola "Interplay of Schramm-Loewner evolution curves with conformal field theory": Exercises 1

9:50-10:10 | **Coffee break**

10:10-11:00 | Eveliina Peltola "Interplay of Schramm-Loewner evolution curves with conformal field theory": Lecture 2

11:10-12:00 | Maxim Zabzine, "Equivariant localization in quantum field theory": Lecture 2

12:15 | **Lunch**

16.30 | **Coffee break at Les Sources**

17:10-18:00 | Maxim Zabzine, "Equivariant localization in quantum field theory": Exercises 1

18:10-19:00 | Francis Brown, "Feynman Integrals and Number Theory": Lecture 3

19:15 | **Dinner**



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NCCR SwissMAP

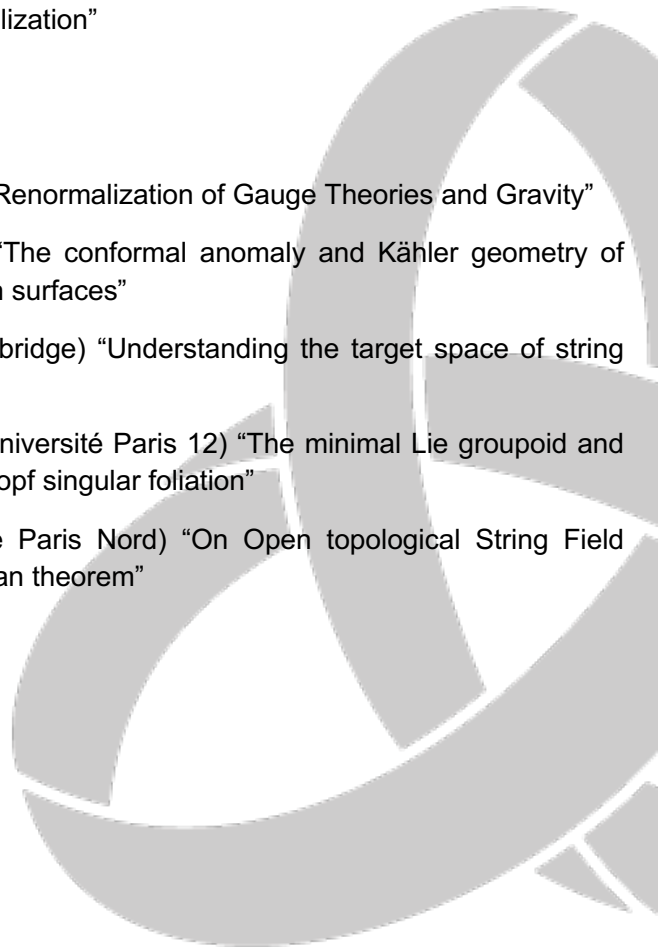
<http://nccr-swissmap.ch/>

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Wednesday, January 10

9:00-9:25	Daniel Alvarez (University of Toronto) “Generalized Kahler structures and double symplectic groupoids Kahler metrics are locally determined by a single real valued function on a manifold”
9:30-9.55	Jonah Epstein (University of Bonn) “Hopf algebra renormalization and algebraic quantum field theory”
9:50-10:15	Simon Heuveline (University of Cambridge) “Deformations of Celestial Chiral Algebras”
10:15-10:35	Coffee break
10:35-11:00	Thibault Juillard (Université Paris-Saclay) “Reduction by stages for finite W-algebras”
11:00-11:25	Pedram Karimi (University of Warsaw) “The proof of superrintegrability in beta deformed matrix model”
11:25-11:50	Raffaele Lomartire (University of Vienna) “The asymptotically AdS3 GR to Liouville CFT reduction and its higher-spin generalization”
12:15	Lunch
16:30	Coffee break at Les Sources
16:45 – 17:10	David Prinz (Max Planck Institute) “Renormalization of Gauge Theories and Gravity”
17:10-17:35	Sid Maibach (University of Bonn) “The conformal anomaly and Kähler geometry of moduli spaces of bordered Riemann surfaces”
17:35-18:00	Nathan McStay (University of Cambridge) “Understanding the target space of string theory at large alpha”
18:00-18:25	Hadi Nahari (Université Lyon 1 – Université Paris 12) “The minimal Lie groupoid and infinity algebroid of the octonionic Hopf singular foliation”
18:25-18:50	Jakob Ulmer (Université Sorbonne Paris Nord) “On Open topological String Field Theory and the Loday-Quillen-Tsygan theorem”
19:15	Dinner



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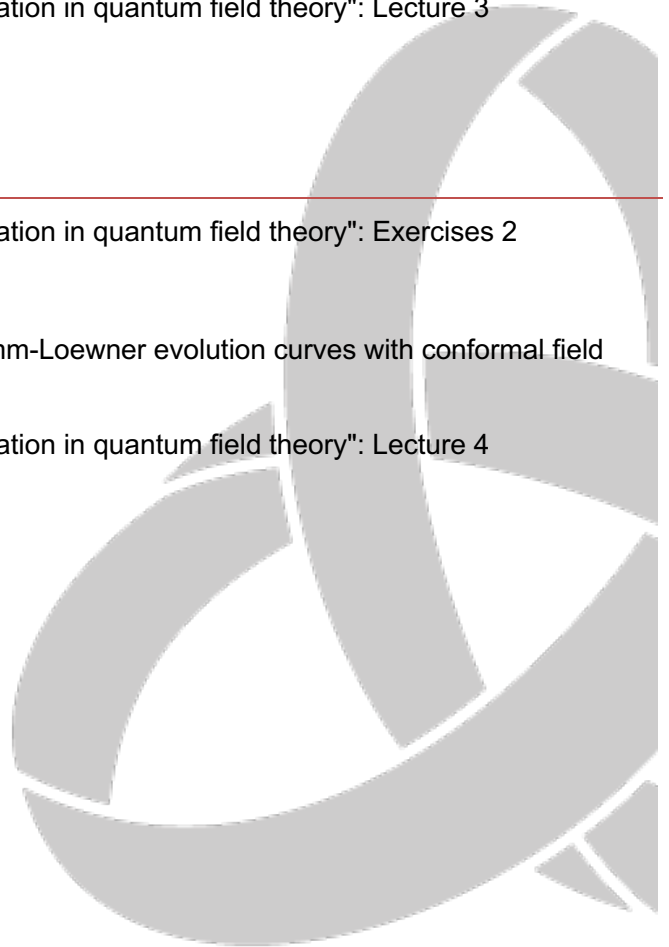
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Thursday, January 11

9:00-9:50	Francis Brown, "Feynman Integrals and Number Theory": Exercises 2
9:50-10:10	Coffee break
10:10-11:00	Francis Brown, "Feynman Integrals and Number Theory": Lecture 4
11:10-12:00	Eveliina Peltola "Interplay of Schramm-Loewner evolution curves with conformal field theory": Lecture 3
12:15	Lunch
16.30	Coffee break at Les Sources
17:10-18:00	Eveliina Peltola "Interplay of Schramm-Loewner evolution curves with conformal field theory": Exercises 2
18:10-19:00	Maxim Zabzine, "Equivariant localization in quantum field theory": Lecture 3
19:15	Dinner

Friday, January 12

9:00-9:50	Maxim Zabzine, "Equivariant localization in quantum field theory": Exercises 2
09:50-10:10	Coffee break
10:10-11:00	Eveliina Peltola "Interplay of Schramm-Loewner evolution curves with conformal field theory": Lecture 4
11:10-12:00	Maxim Zabzine, "Equivariant localization in quantum field theory": Lecture 4
12:15	Lunch



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