

## Women at the Intersection of Mathematics and High Energy Physics

Villa Battelle (Université de Genève) – February 18-20, 2019

### Monday, February 18

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<b>Session 1</b>	<b>Topological, algebraic and geometric invariants</b>
9:00-9:30	Topical discussion
9:30-9:40	<b>Short Break</b>
9:40-10:40	Sofia Labropoulou, <i>Topological surgery in the small and in the large</i>
10:40-11:00	<b>Coffee break</b>
11:00-11:30	Cristina Diamantini, <i>Superinsulator: the physics of confinement realised in a new topological state of matter</i>
11:30-12:00	Ana Peon-Nieto, <i>Hitchin systems in geometry and physics</i>
12:00-13:30	<b>Lunch Break</b>
<b>Session 2</b>	<b>Locality and singularities</b>
13:30-14:00	Topical discussion
14:00-14:10	<b>Short Break</b>
14:10-15:10	Kasia Rejzner, <i>TBA</i>
15:10-15:30	<b>Coffee Break</b>
15:30-16:00	Ariane Carrance, <i>Quantum spacetime and random colored trisps</i>
16:00-16:10	<b>Short Break</b>
16:10-17:30	Panel discussion I
17:30-19:00	<b>Aperitif &amp; Photo Exhibition</b>



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### Tuesday, February 19

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<b>Session 3</b>	<b>Symmetry and Dualities</b>
9:00-9:30	Topical discussion
9:30-9:40	<b>Short Break</b>
9:40-10:40	Marta Mazzocco, <i>Symmetry and duality for orthogonal polynomials and the underlying algebras</i>
10:40-11:00	<b>Coffee Break</b>
11:00-11:30	Francesca Arici, <i>Sphere bundles and Gysin sequences: from topology to mathematical physics</i>
11:30-12:00	Iuliya Beloshapka, <i>Twistor approach to harmonic 2-spheres in the loop space</i>
12:00-13:30	<b>Lunch Break</b>
<b>Session 4</b>	<b>Topological, algebraic and geometric invariants</b>
13:30-14:00	Topical discussion
14:00-14:10	<b>Short Break</b>
14:10-15:10	Chenchang Zhu, <i>Higher groups in higher gauge theory (arising from topological orders)</i>
15:10-15:30	<b>Coffee Break</b>
15:30-16:00	Anna Lachowska, <i>The small quantum group and the non-semisimple fusion</i>
16:00-16:10	<b>Short Break</b>
16:10-17:30	Panel discussion II
18:30-22 :00	<b>Cocktail Dinner</b>



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# Women at the Intersection of Mathematics and High Energy Physics

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## Wednesday, February 20

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### Session 5

#### Symmetry and dualities

9:00-9:30

Topical discussion

9:30-9:40

Short Break

9:40-10:40

Anastasia Volovich, *TBA*

10:40-11:00

Coffee break

11:00-11:30

Valentina Forini, *Superstring world-sheet non-perturbatively, and AdS/CFT*

11:30-12:00

Reiko Toriumi, *The gravitational Wilson loop and non-Abelian Stokes' theorem*

12:00-13:30

Lunch Break

### Session 6

#### Locality and singularities + Gong Show Talks

13:30-14:00

Topical discussion

14:00-14:10

Short Break

14:10-15:10

Fay Dowker, *Why is the geometry of the physical world Lorentzian and not Riemannian?*

15:10-15:30

Coffee Break

Gong Show Talks :

Olga Chekeres, *Quantum Wilson surfaces and topological interactions*

15:30-16:30

Pierre Clavier, *Locality and multivariate renormalisation*

Matteo Felder, *Automorphisms of a model for configuration spaces of points on surfaces*

16:30-16:40

Short Break

Gong Show Talks :

16:40-17:20

Andrea Nützi, *Scattering amplitudes of YM and GR as minimal model brackets and their recursive characterization.*

Elise Raphael, *Kashiwara Vergne in depth 2 and q-divergence*



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