

Week 3, August 16 - 19, 2022

of the Thematic Programme on

“Higher Structures and Field Theory”

August 1 - 26, 2022, organized by

Anton Alekseev (U Genève), Stefan Fredenhagen (U Vienna),  
Nicolai Reshetikhin (UC, Berkeley), Thomas Strobl (U Lyon), Chenchang Zhu (U Göttingen)

• **Tuesday, August 16th, 2022**

09:00 – 10:00 **Registration & Welcome**

10:00 – 11:00 **Chris Hull (Imperial College, London)**

*The L-infinity Structure of Effective Field Theory*

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **Konrad Waldorf (U Greifswald)**

*Geometric T-duality: Buscher rules in general topology*

12:30 – 15:00 **Lunch Break and Discussions**

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **Miquel Cueva (U Göttingen)**

*Shifted lagrangian groupoids on BG*

• **Wednesday, August 17th, 2022**

10:00 – 11:00 **Christoph Schweigert (U Hamburg)**

*Traces and higher structures*

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **Martin Bojowald (Penn State)**

*Hypersurface deformation structures and space-time models*

12:30 – 15:00 **Lunch Break and Discussions**

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **Georgy Sharygin (Moscow)**

*L-infinity derivations and the argument shift method for deformation quantization algebras*

19:00 – 22:00 **Conference Dinner**

• **Thursday, August 18th, 2022**

10:00 – 11:00 **Eugene Skvortsov (U Mons)**

*Strong homotopy algebras for higher spin gravity and 3d bosonization duality*

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **David Reutter (U Hamburg)**

*Higher S-matrices and a form of Poincare duality for anomalous TQFTs*

12:30 – 15:00 **Lunch Break and Discussions**

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **Christian Saemann (Heriot-Watt U, Edinburgh)**

*Non-Geometric T-duality from Higher Groupoid Bundles with Connections*

- **Friday, August 19th, 2022**

10:00 – 11:00 **Maxim Zabzine (Uppsala U)**

*Equivariant partition functions and geometry*

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **Roberta Anna Iseppi (Georg-August-U, Göttingen)**

*The Batalin-Vilkovisky construction for finite spectral triples*

12:30 – 15:00 **Lunch Break and Discussions**

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **Friedrich Wagemann (U Nantes)**

*Vanishing and nonvanishing theorems for the cohomology of nilpotent Leibniz algebras*

**All talks take place at ESI Boltzmann Lecture Hall! Please keep in mind that on-site participation is only possible under Covid 3G rules and wearing an FFP2 face mask is mandatory at the Erwin Schrödinger Institute.**