

Week 2, August 8 - 12, 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)

• **Monday, August 8th, 2022**

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

10:00 – 11:00 **Athanasios Chatzistavrakidis (RBI, Zagreb)**

Twisted R-Poisson Sigma Models and Higher Geometry

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **Chenchang Zhu (U Göttingen)**

Differentiation of higher Lie groupoid

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

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **David Carchedi (GMU)**

Derived Manifolds in Quantum Field Theory

• **Tuesday, August 9th, 2022**

10:00 – 11:00 **Alexei Davydov (OSU)**

Deformation cohomology of tensor categories

11:00 – 11:30 **Coffee Break**

11:30 – 15:00 **Lunch Break and Discussions**

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **Zoran Škoda (U Zadar)**

Nonassociative deformations and Hopf algebroids

• **Wednesday, August 10th, 2022**

10:00 – 11:00 **Martin Schlichenmaier (U of Luxembourg)**

N-point Virasoro algebras are multi-point Krichever-Novikov type algebras.

11:00 – 11:00 **Coffee Break**

11:30 – 12:30 **Dmitri Nikshych (UNH)**

Braided module categories, 2-centers, and higher Morita equivalences for braided tensor categories

- **Thursday, August 11th, 2022**

10:00 – 11:00 **Branislav Jurco (Charles U, Prague)**
On the category of BV-theories (loop homotopy algebras)

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **Grgur Simunic (Institut Ruđer Bošković)**
Classical BV action of topological Dirac sigma model

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

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **Jürgen Fuchs (U Karlstad)**
String nets and universal RCFT correlators

- **Friday, August 12th, 2022**

10:00 – 11:00 **Maxim Grigoriev (Moscow)**
Local gauge theories as presymplectic gauge PDEs

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **Aliaksandr Hancharuk (U Lyon)**
On Koszul-Tate resolutions: an explicit construction using decorated trees

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

15:00 – 15:30 **Coffee Break**

15:30 – 16:30 **Ivan Dneprov (Moscow)**
Presymplectic BV-AKSZ formulation of Conformal Gravity

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.