

Week 1 of the Thematic Programme on

DVR 0065528

**“Infinite-dimensional Geometry: Theory and Applications”****January 13 - 17, 2025****organized by****Tomasz Goliński (U of Białystok), Gabriel Larotonda (U of Buenos Aires), Alice Barbara Tumpach (WPI, Vienna), Cornelia Vizman (WU of Timisoara)**• **Monday, January 13th, 2025**09:00 – 09:30 **Registration**09:30 – 09:40 **Opening**09:40 – 10:40 **Mini-Course 1 lecture 1 (1 hour including questions): Madeleine Jotz (U of Würzburg)**  
*Lie algebroid cohomology and ideals in Lie algebroids*10:40 – 11:10 **Coffee or Tea break**11:10 – 12:00 **Invited talk (40 min + 10 min questions): Francesco Cattafi (U of Würzburg)**  
*PB-groupoids vs VB-groupoids*12:00 – 14:00 **Lunch break**14:00 – 15:00 **Mini-Course 2 lecture 1 (1 hour including questions): Aneta Sliżewska (U of Białystok)**  
*Banach-Lie groupoids*15:00 – 15:30 **Coffee or Tea break**15:30 – 16:30 **Mini-Course 3 lecture 1 (1 hour including questions): Eduardo Chiumiento (IAM, Buenos Aires)**  
*Operator ideals and infinite-dimensional geometry*• **Tuesday, January 14th, 2025**09:00 – 09:30 **Tutorial (30 min): Cornelia Vizman (WU Timisoara)**  
*Central extensions in infinite dimensions*09:30 – 10:30 **Mini-course 1 lecture 2 (1 hour including questions): Madeleine Jotz (U of Würzburg)**  
*Lie algebroid cohomology and ideals in Lie algebroids*10:30 – 11:00 **Coffee or Tea break**11:00 – 12:00 **Keynote Talk (1 hour including questions): Anton Alekseev (U Genève)**  
*Loop group Hamiltonian actions: a review*12:00 – 14:00 **Lunch break**14:00 – 15:00 **Mini-course 2 lecture 2 (1 hour including questions): Aneta Sliżewska (U of Białystok)**  
*Banach-Lie groupoids*15:00 – 15:30 **Coffee or Tea break**15:30 – 16:30 **Mini-Course 3 lecture 2 (1 hour including questions): Eduardo Chiumiento (IAM, Buenos Aires)**  
*Operator ideals and infinite-dimensional geometry*

- **Wednesday, January 15th, 2025**

- 09:00 – 09:30 **Tutorial (30 min):** Alice Barbara Tumpach (WPI, TU Vienna and Lille U) *Banach Poisson-Lie groups*
- 09:40 – 09:30 **Invited talk (40 min + 10 min questions):** Milan Niestijl (U of Paderborn) *Holomorphic induction of unitary representations of BCH Fréchet-Lie groups*
- 10:30 – 11:00 **Coffee or Tea break**
- 11:00 – 12:00 **Keynote Talk (1 hour including questions):** Karl-Hermann Neeb (FAU, Erlangen-Nürnberg) *Covariant projective representations of Hilbert–Lie groups*
- 12:00 – 14:00 **Lunch break**
- 14:00 – 15:00 **Keynote talk (1 hour including questions):** Daniel Beltita (IMAR, Bucharest) *Leaf spaces in Lie theory*
- 15:00 – 15:20 **Coffee or Tea break**
- 15:20 – 15:55 **Short talk (20 min + 5 min questions):** Eugenia Boffo (Charles U, Prague) *Geometric and algebraic aspects in the quantization of gauge theories*
- 15:55 – 16:45 **Invited talk (40 min + 10 min questions):** Florian Zeiser (U Illinois) *TBA*
- 17:00 **Cocktail reception**

- **Thursday, January 16th, 2025**

- 09:00 – 10:00 **Mini-Course 1 lecture 3 (1 hour including questions):** Madeleine Jotz (U of Würzburg) *Lie algebroid cohomology and ideals in Lie algebroids*
- 10:05 – 10:30 **Short talk (20 min + 5 min questions):** Praful Rahangdale (U of Paderborn) *Correspondence between infinite-dimensional Poisson-Lie groups and Lie bialgebras.*
- 10:30 – 11:00 **Coffee or Tea break**
- 11:00 – 12:00 **Mini-Course 2 lecture 3:** Aneta Ślizewska (U of Białystok) *Banach-Lie groupoids*
- 12:00 – 14:00 **Lunch break**
- 14:00 – 15:00 **Keynote talk (1 hour including questions):** Chiara Esposito (U of Salerno) *Global Homotopies for HKR Theorems in Differential Geometry*
- 15:00 – 15:30 **Coffee or Tea break**
- 15:30 – 16:30 **Mini-Course 3 lecture 3 (1 hour including questions):** Eduardo Chiumiento (IAM, Buenos Aires) *Operator ideals and infinite-dimensional geometry*

- **Friday, January 17th, 2025**

- 09:00 – 09:50 **Invited talk (40 min + 10 min questions):** Christian Blohmann (MPIM Bonn) *Lie algebras of diffeomorphism groups of non-compact manifolds (part 1)*
- 09:55 – 10:20 **Short talk (20 min + 5 min questions):** David Miyamoto (MPIM, Bonn) *Lie algebras of diffeomorphism groups of non-compact manifolds (part 2)*
- 10:20 – 10:40 **Coffee or Tea break**

10:40 – 11:05 **Short talk (20 min + 5 min questions): Elwira Wawreniuk (U of Białystok)**

*TBA*

11:10 – 12:00 **Invited talk (40 min + 10 min questions): Damaris Meier (U of Fribourg)**

*Uniformization of metric surfaces*

12:00 – 14:00 **Lunch break**

14:00 – 15:00 **Keynote talk (1 hour including questions): Esteban Andruchow (UNGS, Buenos Aires)**

*Subspaces with or without a common complement*

15:00 – 15:30 **Coffee or Tea break**

15:30 – 16:20 **Invited talk (40 min + 10 min questions): Tilmann Wurzbacher (IECL, Metz)**

*TBA*

16:20 – 16:30 **Closing**

**All talks take place at ESI Boltzmann Lecture Hall!**