

Thematic Programme on

“Geometry beyond Riemann: Curvature and Rigidity”

September 11 - November 3, 2023

organized by

Ivan Izmistiev (TU Vienna), Athanase Papadopoulos (IRMA, Strasbourg), Marc Troyanov (EPFL, Lausanne), Sumio Yamada (Gakushuin U, Tokyo)

• **Monday, September 18th, 2023**

09:00 – 09:30 **Registration & Welcome**

09:30 – 10:20 **Andreas Bernig (Goethe U Frankfurt)**

Curvature tensors and measures of singular spaces I

10:20 – 10:40 **Coffee break**

10:40 – 11:30 **Andrea Seppi (U Grenoble Alpes)**

Anti-de Sitter geometry and applications to hyperbolic surfaces I

11:30 – 12:20 **Peter C. Aichelburg (U of Vienna) Piotr T. Chruściel (U of Vienna)**

Elements of general relativity I

12:20 – 14:00 **Lunch break**

14:00 – 14:50 **Peter C. Aichelburg (U of Vienna) Piotr T. Chruściel (U of Vienna)**

Elements of general relativity II

14:50 – 15:10 **Coffee break**

15:10 – 16:00 **Mohammad Ghomi (GATECH, Atlanta)**

Geometric inequalities in space of nonpositive curvature I

16:00 – 16:50 **Vladimir Matveev (U Jena)**

Nijenhuis geometry I

17:00 – 19:00 **Reception**

• **Tuesday, September 19th, 2023**

09:00 – 09:50 **Andreas Bernig (Goethe U Frankfurt)**

Curvature tensors and measures of singular spaces II

09:50 – 10:10 **Coffee break**

10:10 – 11:00 **Andrea Seppi (U Grenoble Alpes)**

Anti-de Sitter geometry and applications to hyperbolic surfaces II

11:00 – 11:50 **Peter C. Aichelburg (U of Vienna) Piotr T. Chruściel (U of Vienna)**

Elements of general relativity III

12:00 – 14:00 **Lunch break**

14:00 – 14:50 **Feng Luo (Rutgers U)**

Discrete conformal geometry of polyhedral surfaces I

14:50 – 15:10 **Coffee break**

15:10 – 16:00 **Mohammad Ghomi (GATECH, Atlanta)**
Geometric inequalities in space of nonpositive curvature II

16:00 – 16:50 **Vladimir Matveev (U Jena)**
Nijenhuis geometry II

- **Wednesday, September 20th, 2023**

09:00 – 09:50 **Peter C. Aichelburg (U of Vienna) Piotr T. Chruściel (U of Vienna)**
Elements of general relativity IV

09:50 – 10:10 **Coffee break**

10:10 – 11:00 **Andrea Seppi (U Grenoble Alpes)**
Anti-de Sitter geometry and applications to hyperbolic surfaces III

11:00 – 11:50 **Feng Luo (Rutgers U)**
Discrete conformal geometry of polyhedral surfaces II

19:00 – **Dinner**

- **Thursday, September 21st, 2023**

09:00 – 09:50 **Andreas Bernig (Goethe U Frankfurt)**
Curvature tensors and measures of singular spaces III

09:50 – 10:10 **Coffee break**

10:10 – 11:00 **Andrea Seppi (U Grenoble Alpes)**
Anti-de Sitter geometry and applications to hyperbolic surfaces IV

11:00 – 11:50 **Peter C. Aichelburg (U of Vienna) Piotr T. Chruściel (U of Vienna)**
Elements of general relativity V

12:00 – 14:00 **Lunch break**

14:00 – 14:50 **Feng Luo (Rutgers U)**
Discrete conformal geometry of polyhedral surfaces III

14:50 – 15:10 **Coffee break**

15:10 – 16:00 **Mohammad Ghomi (GATECH, Atlanta)**
Geometric inequalities in space of nonpositive curvature III

16:00 – 16:50 **Vladimir Matveev (U Jena)**
Nijenhuis geometry III

- **Friday, September 22nd, 2023**

09:00 – 09:50 **Andreas Bernig (Goethe U Frankfurt)**

Curvature tensors and measures of singular spaces IV

09:50 – 10:10 **Coffee break**

10:10 – 11:00 **Peter C. Aichelburg (U of Vienna) Piotr T. Chruściel (U of Vienna)**

Elements of general relativity VI

11:00 – 11:50 **Vladimir Matveev (U Jena)**

Nijenhuis geometry IV

12:00 – 14:00 **Lunch break**

14:00 – 14:50 **Mohammad Ghomi (GATECH, Atlanta)**

Geometric inequalities in space of nonpositive curvature IV

14:50 – 15:40 **Feng Luo (Rutgers U)**

Discrete conformal geometry of polyhedral surfaces IV

15:40 – **Coffee**

All talks take place at ESI Boltzmann Lecture Hall!