

Spring School of the Thematic Programme on
“Mathematical Perspectives of Gravitation beyond the Vacuum Regime”

February 7 – 10, 2022

organized by

Håkan Andréasson (CUT, Gothenburg), David Fajman (U Vienna), Jérémie Joudioux (MPIGP, Potsdam), Todd Oliynyk (Monash U, Melbourne)

• **Monday, February 7th, 2022**

09:00 – 13:50 **Registration**

13:50 – 14:00 **Welcome words**

14:00 – 15:00 **Markus Kunze** *A Birman-Schwinger principle in galactic dynamics (The Vlasov-Poisson system), Lecture I*

15:00 – 16:00 **Markus Kunze** *A Birman-Schwinger principle in galactic dynamics (The Vlasov-Poisson system), Lecture II*

16:00 – 17:00 **Coffee Break**

17:00 – 18:00 **Jared Speck** *The Relativistic Euler Equations: Remarkable Structures and Applications, Lecture I* – online

18:00 – 19:00 **Jared Speck** *The Relativistic Euler Equations: Remarkable Structures and Applications, Lecture II* - online

• **Tuesday, February 8th, 2022**

14:00 – 15:00 **Bobby Beig** *General relativistic elasticity, Lecture I*

15:00 – 16:00 **Bobby Beig** *General relativistic elasticity, Lecture II*

16:00 – 17:00 **Coffee Break**

17:00 – 18:00 **Olivier Sarbach** *The Einstein-Vlasov system, Lecture I*

18:00 – 19:00 **Olivier Sarbach** *The Einstein-Vlasov system, Lecture II*

• **Wednesday, February 9th, 2022**

14:00 – 15:00 **Markus Kunze** *A Birman-Schwinger principle in galactic dynamics (The Vlasov-Poisson system), Lecture III*

15:00 – 16:00 **Markus Kunze** *A Birman-Schwinger principle in galactic dynamics (The Vlasov-Poisson system), Lecture IV*

16:00 – 17:00 **Coffee Break**

17:00 – 18:00 **Jared Speck** *The Relativistic Euler Equations: Remarkable Structures and Applications, Lecture III* – online

18:00 – 19:00 **Jared Speck** *The Relativistic Euler Equations: Remarkable Structures and Applications, Lecture IV* – online

- **Thursday, February 10th, 2022**

14:00 – 15:00 **Bobby Beig** *General relativistic elasticity, Lecture III*

15:00 – 16:00 **Bobby Beig** *General relativistic elasticity, Lecture IV*

16:00 – 17:00 **Coffee Break**

17:00 – 18:00 **Olivier Sarbach** *The Einstein-Vlasov system, Lecture III*

18:00 – 19:00 **Olivier Sarbach** *The Einstein-Vlasov system, Lecture IV*

The event takes place at the Erwin Schrödinger Institute - Boltzmann lecture hall! Online participation is possible via zoom. Zoom coordinates are available on request (secr@esi.ac.at) and after registration until February 6, 2022.