

Programme on  
“Geometry and Relativity”  
July 17 – September 8, 2017

organized by

**Robert Beig (U Vienna), Piotr T. Chruściel (U Vienna), Michael Eichmair (U Vienna), Gregory Galloway (U Miami), Richard Schoen (UC, Irvine), local organization: Tim-Torben Paetz (U Vienna)**

**Summer School: Between Geometry and Relativity**  
**July 17 – 21, 2017**

• **Monday, July 17, 2017**

08:30 – 09:30 **Opening and Registration**

09:30:00 – 10:30 **Justin Corvino**

*Constructing initial data for the Einstein equations 1*

10:30 – 11:00 *Coffee / Tea Break*

11:00 – 12:00 **Justin Corvino**

*Constructing initial data for the Einstein equations 2*

12:00 – 13:00 **Lan-Hsuan Huang**

*Positive energy theorems 1*

13:00 – 14:30 *lunch break*

14:30 – 15:30 **Lan-Hsuan Huang**

*Positive energy theorems 2*

15:30 – 16:00 *Break*

16:00 – 17:00 **Marie-Anne Bizouard**

*Making waves 1*

• **Tuesday, July 18, 2017**

09:00:00 – 10:00 **Justin Corvino**

*Constructing initial data for the Einstein equations 3*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Michael Eichmair**

*Positive energy theorems 3*

11:40 – 12:40 **Michael Eichmair**

*Positive energy theorems 4*

12:40 – 14:00 *lunch break*

14:00 – 15:00 **Greg Galloway**  
*Topology & general relativity 1*

15:00 – 16:00 **Poster Session & Break**

16:00 – 17:00 **Marie-Anne Bizouard**  
*Making waves 2*

• **Wednesday, July 19, 2017**

09:00:00 – 10:00 **Justin Corvino**  
*Constructing initial data for the Einstein equations 4*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Richard Schoen**  
*Positive energy theorems 5*

11:40 – 12:40 **Richard Schoen**  
*Positive energy theorems 6*

12:40 – 14:00 *lunch break*

14:00 – 15:00 **Greg Galloway**  
*Topology & general relativity 2*

15:00 – 16:00 **Poster Session & Break**

16:00 – 17:00 **David Fajman**  
*Dynamics of general relativity 1*

• **Thursday, July 20, 2017**

09:00:00 – 10:00 **David Fajman**  
*Dynamics of general relativity 2*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Richard Schoen**  
*Positive energy theorems 7*

11:40 – 12:40 **Richard Schoen**  
*Positive energy theorems 8*

12:40 – 14:00 *lunch break*

14:00 – 15:00 **Greg Galloway**  
*Topology & general relativity 3*

15:00 – 15:30 *Break*

15:30 – 16:30 **Stefan Gillessen**  
*The black heart of our galaxy 1*

• **Friday, July 21, 2017**

09:00:00 – 10:00 **David Fajman**  
*Dynamics of general relativity 3*

10:00 – 10:30 *Coffee / Tea Break*

10:30 – 11:30 **Richard Schoen**  
*Positive energy theorems 9*

11:40 – 12:40 **Richard Schoen**

*Positive energy theorems 10*

12:40 – 14:00 *lunch break*

14:00 – 15:00 **Greg Galloway**

*Topology & general relativity 4*

15:00 – 15:30 *Break*

15:30 – 16:30 **Stefan Gillessen**

*The black heart of our galaxy 2*

**All talks take place at the Lise Meitner Lecture Hall, 1st floor, Faculty of Physics, Strudlhofgasse 4/Boltzmannngasse 5, 1090 Vienna!**