

**SUMMER SCHOOL on “Mathematical Relativity:  
99 years of General Relativity”**

organized by

**Robert Beig and Piotr T. Chruściel (Vienna), Mihalis Dafermos (Princeton), Helmut Friedrich (AEI Golm), Gregory Galloway (Miami), and Richard M. Schoen (Stanford)****July 28 - August 1, 2014****at the Faculty of Physics - U Vienna****Strudlhofgasse 4 (around the corner from the ESI):****Lise Meitner Lecture Hall, (1st floor, room 3103)****• Monday, July 28, 2014**08:45 **Registration**09:30 – 10:30 **Robert Beig:** *Introduction to differential geometry, I*10:30 – 11:00 *coffee/tea break*11:00 – 12:00 **Robert Beig:** *Introduction to differential geometry, II*12:10 – 13:10 **Marc Mars:** *Introduction to general relativity, I*13:10 – 14:30 *lunch break*14:30 – 15:30 **Marc Mars:** *Introduction to general relativity, II*15:40 – 16:40 **Gregory Galloway:** *Lorentzian causality, I*16:50 – 17:50 **Justin Corvino:** *Constraint equations, I***• Tuesday, July 29, 2014**09:00 – 10:00 **Marc Mars:** *Introduction to general relativity, III*10:00 – 10:25 *coffee/tea break*10:25 – 11:25 **Gregory Galloway:** *Lorentzian causality, II*11:35 – 12:35 **Gregory Galloway:** *Lorentzian causality, III*12:35 – 14:00 *lunch break*14:00 – 15:00 **Justin Corvino:** *Constraint equations, II*15:10 – 16:10 **Hans Ringström:** *The Evolution problem in general relativity, I*16:30 – 17:30 **Gustav Holzegel:** *Wave equations on black hole space-times, I*

- **Wednesday, July 30, 2014**

09:00 – 10:00 **Gregory Galloway:** *Lorentzian causality, IV*

10:00 – 10:25 *coffee/tea break*

10:25 – 11:25 **Justin Corvino:** *Constraint equations, III*

11:35 – 12:35 **Hans Ringström:** *The Evolution problem in general relativity, II*

11:35 – 12:35 **Hans Ringström:** *The Evolution problem in general relativity, II*

12:35 – 12:45 **Deadline for handing in registration and reimbursement forms**

- **Thursday, July 31, 2014**

09:00 – 10:00 **Justin Corvino:** *Constraint equations, IV*

10:00 – 10:25 *coffee/tea break*

10:25 – 11:25 **Hans Ringström:** *The Evolution problem in general relativity, III*

11:35 – 12:35 **Hans Ringström:** *The Evolution problem in general relativity, IV*

12:35 – 13:30 *lunch break*

13:30 – 14:00 **Poster Session**

14:00 – 15:00 **Gustav Holzegel:** *Wave equations on black hole space-times, II*

15:10 – 16:10 **Gustav Holzegel:** *Wave equations on black hole space-times, III*

16:30 – 17:30 **Stefan Gillessen:** *The galactic center, I*

- **Friday, August 1, 2014**

09:00 – 10:00 **Gregory Galloway:** *Lorentzian causality, V*

10:00 – 10:25 *coffee/tea break*

10:25 – 11:25 **Justin Corvino:** *Constraint equations, V*

11:35 – 12:35 **Stefan Gillessen:** *The galactic center, II*

12:35 – 14:00 *lunch break*

14:00 – 15:00 **Hans Ringström:** *The Evolution problem in general relativity, V*

15:10 – 16:10 **Gustav Holzegel:** *Wave equations on black hole space-times, IV*

16:30 – 17:30 **Gustav Holzegel:** *Wave equations on black hole space-times, V*

**All lectures at the Faculty of Physics - U Vienna (around the corner from the ESI),  
Strudlhofgasse 4: Lise Meitner Lecture Hall, 1st floor room 3103**