



DIPARTIMENTO  
DI MATEMATICA  
GIUSEPPE PEANO  
UNIVERSITÀ DI TORINO



SIGRAV  
Società Italiana di Relatività  
Generale  
e Fisica della Gravitazione

## Causality in General Relativity and related topics

100 years from Hilbert's 1917 "Die Grundlagen der Physik (Zweite Mitteilung)"

29<sup>th</sup>, May 2017

Organizers:

L. Fatibene, University of Waterloo, Canada and University of Torino, Italy

M. Ferraris, M. Palese, University of Torino, Italy

O. Rossi, University of Ostrava, Czech Republic

### Lectures

- **Paolo Aschieri** (University of Piemonte Orientale in Alessandria)  
*General Relativity on noncommutative and nonassociative spaces*
- **Anton Galaev** (University of Hradec Králové)  
*Holonomy groups and Einstein equation*
- **Rod Gover** (University of Auckland)  
*Conformal and projective compactification in GR*
- **Olga Rossi** (University of Ostrava)  
*The Lagrangian order-reduction theorem*
- **Ekkehart Winterroth** (University of Torino and Lepage Research Institute)  
*Variational cohomology and global solutions in higher Chern–Simons gauge theory*

### Short Communications & Posters

- **Luca Accornero** (University of Torino )  
*Higher order variations and conservation laws*
- **Eliska Berankova** (University of Ostrava)  
*Sonya Kowalevski and Emmy Noether*
- **Francesco Cattafi** (University of Utrecht)  
*Geometric structures and Pfaffian groupoids*