

# **Loop Quantum Gravity Summer School 2024 (Blaumann School for Quantum Gravity)**

**Monday 29 April 2024 - Friday 3 May 2024**

## **Programme**

*Preliminary Programme:*

**Introduction to Canonical Loop Quantum Gravity  
(Kristina Giesel)**

**Introduction to Covariant Loop Quantum Gravity  
(Francesca Vidotto)**

**Regge Calculus and Applications to Loop Quantum  
Gravity (Bianca Dittrich)**

**Black Holes in Loop Quantum Gravity (Abhay  
Ashtekar)**

**Black Hole to White Hole Transition (Carlo Rovelli)**

**Loop Quantum Cosmology (Parampreet Singh)**

**Numerics for Spin Foams (Hongguang Liu)**

**Chern-Simons Theory and Spin Foam Model with  
Cosmological Constant (Qiaoyin Pan)**