

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

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