



## Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

**Dienstag, 28. Januar 2025**

17 Uhr, Geom H4

PD Dr. Olaf Müller  
(Humboldt Universität Berlin)

Title:

Looking Through Singularities - Maximality and Cauchy developments in classical and in synthetic Lorentzian geometry

Abstract:

Approaches to synthesize Lorentzian geometry have experienced an exceptionally fast progress in the last few years.

The present talk motivates these approaches, explains first facts about them and explores how they recover and extend several concepts of the classical approach, in particular, how they relate to the notions of extendibility and of maximal Cauchy development, two notions of fundamental importance in mathematical general relativity.

**Vor dem Vortrag (ab 16.30 Uhr) stehen im Foyer vor Hörsaal H4  
Kaffee und Tee bereit.**