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Boundary value problems on noncompact manifolds with application to stratified spaces

23. Januar 2018 - 16 Uhr
Seminarraum IGT, Raum 7.530, Pfaffenwaldring 57

Abstract:

We consider Poisson problems on manifolds with boundary and bounded geometry and assume that they have finite width (that is, that the distance from any point to the boundary is bounded uniformly). As an application, we establish the connection to the Poisson problem on certain domains in the plane and higher dimensional stratified spaces. In particular we get the well-posedness of strongly elliptic equations on domains with oscillating conical singularities, a class of domains that generalizes the class of bounded domains with conical points. This is joint work with Bernd Ammann (Regensburg) and Victor Nistor (Metz).

