

Maximal regularity for the Laplacian on manifolds with edges

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Abstract

We describe an R-sectoriality perturbation technique for non-commuting operators defined in Bochner spaces. Based on this and on bounded H^∞ -calculus results on manifolds with conical singularities, we obtain maximal regularity for the Laplacian on manifolds with edge type singularities in appropriate weighted Sobolev spaces.