



# Mathematisches Kolloquium

## Elliptic boundary value problems on domains with corners

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For elliptic boundary value problems one may naively expect that corners, and other nonsmooth boundary parts, have their influence just on the regularity of the problem. So, one should approximate through smoothing the boundary and besides technicalities not much structurally different will appear. However both for linear and nonlinear there are many cases, where peculiarities arise. I will recall a list of diverse examples, where corners will lead to unexpected results.