Hölder estimates for parabolic operators
on domains with rough boundary

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Abstract. In this paper we investigate linear parabolic, second-order boundary-value problems with mixed boundary conditions on rough domains. Assuming only boundedness/ellipticity on the coefficient function and very mild conditions on the geometry of the domain – including a very weak compatibility condition between the Dirichlet boundary part and its complement – we prove Hölder continuity of the solution in space and time