

PARABOLIC EQUATIONS ON DOMAINS OF WEDGE TYPE

SIEGFRIED MAIER

We apply the method of operator sums for non-commuting operators by Prss and Simonett to parabolic equations on domains of wedge type. In order to prove unique solvability we introduce polar coordinates and the Euler transformation. By using these transformations we are able to discuss the resulting operators step by step. Eventually we obtain maximal regularity for the diffusion and for the Stokes equation on a wedge.