

Weak Neumann implies Stokes I

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MON/E3.1 17:30–17:50

Given a domain $\Omega \subset \mathbb{R}^n$ with uniform C^3 -boundary, we prove that the associated Stokes operator generates an analytic semigroup on $L^p_\sigma(\Omega)$ satisfying maximal regularity estimates provided the associated weak Neumann problem is uniquely solvable.