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COMPARATIVE NUMERICAL ANALYSIS OF METHODS FOR SOLVING THE STOKES
PROBLEM IN A DOMAIN WITH SINGULARITY

For the Stokes problem in the domain with singularity on the boundary, we constructed a weight finite element method based on the definition of R_ν -generalized solution. Numerical experiments in the L-shaped domain showed the advantage of the constructed method over the classical approaches. The conclusions were drawn here as well.

Keywords: the Stokes problem with singularity, weight finite element method.

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