

**ON SMOOTHNESS OF A SOLUTION
TO A BOUNDARY VALUE PROBLEM WITH
FRACTIONAL ORDER BOUNDARY OPERATOR**

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We study a boundary value problem for the Laplace equation with a fractional derivative in the boundary condition. We prove the theorem of smoothness of a solution in the Nikol'skiĭ classes.

Key words and phrases: boundary value problem, smoothness of a solution, fractional-order derivative.

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