

# MATHEMATICS

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## DETERMINATION OF THE COEFFICIENT IN THE RIGHT SIDE OF THE SYSTEM OF REACTION –DIFFUSION TYPE IN THE PROBLEM WITH A NONLINEAR BOUNDARY CONDITION

### Abstract

*The goal of the paper is to investigate the well-posedness of the inverse problem on determination of the coefficient in the right side of the system of reaction-diffusion type in the problem with a nonlinear boundary condition. The additional condition is given in nonlocal-integral form. A theorem on uniqueness and ‘conditional’ stability of the considered problem is proved.*