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ON THE SOLVABILITY OF ONE CLASS OF NONLINEAR INTEGRAL EQUATIONS IN $L_1(0, +\infty)$

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We study the problem of constructing a solution that is positive, integrable, and essentially bounded on $(0, +\infty)$ to one class of nonlinear Hammerstein integral equations with noncompact operator in the critical case.

Key words and phrases: nonlinear equation, Hammerstein operator, space of integrable functions, convergence, monotonicity.

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