

On the finite element method for $\Delta u + \mu u - f(x, u) = 0$

by

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Summary.

For a simple semilinear elliptic problem stated in the title, the finite element solutions which approximate a positive solution, were constructed concretely and the optimal rate of convergence in L^2 and H^1 -norms was derived.

For the detail, the reader is referred to [1].

[1] A. Mizutani: J. Fac. Sci. Univ. of Tokyo vol. 25 (1978), 13-24.