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124

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^1norms 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.