## Mathematics > Analysis of PDEs

## A nonlinear degenerate elliptic problem with $\mathbf{W}^{\wedge}\{1,1\} \_0$ solutions

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We study a nonlinear equation with an elliptic operator having degenerate coercivity. We prove the existence of a unique $\mathrm{W}^{\wedge}\{1,1\} \_0$ distributional solution under suitable summability assumptions on the source in Lebesgue spaces. Moreover, we prove that our problem has no solution if the source is a Radon measure concentrated on a set of zero harmonic capacity

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