EXISTENCE, NONEXISTENCE AND MULTIPlicity
RESULTS FOR SEMILINEAR ELLIPTIC PROBLEMS WITH
MEASURE DATA AND ABSORPTION–REACTION TERM

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Abstract. In the case where \( g(u) \) appears as an absorption term, then under some additional hypotheses on \( g \) we prove that the main problem has a solution for all \( \lambda > 0 \) and for all positive \( \mu \in L^1(\Omega) \). In the case where \( g \) appears as a reaction term, then we prove that the main problem has at least two positive solutions under suitable hypotheses on \( \mu \). The asymptotic linear case is also studied.


Keywords and phrases: semilinear elliptic equations, existence and multiplicity, renormalized solutions, radon measures.

REFERENCES