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LINKING SOLUTIONS FOR *p*-LAPLACE EQUATIONS WITH NONLINEARITY AT CRITICAL GROWTH

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ABSTRACT. Under a suitable condition on n and p, the quasilinear equation at critical growth $-\Delta_p u = \lambda |u|^{p-2}u + |u|^{p^*-2}u$ is shown to admit a nontrivial weak solution $u \in W_0^{1,p}(\Omega)$ for any $\lambda \geq \lambda_1$. Nonstandard linking structures, for the associated functional, are recognized.