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***Title:** Non-existence results for weak solutions to quasilinear elliptic equations in bounded convex domains*

***Abstract:** We present some non-existence results for (possibly anisotropic) quasilinear elliptic PDEs in a bounded convex domain. The governing equation is of  $p$ -Laplace type and includes critical  $p$ -Laplace type equations arising from Sobolev type inequalities. Under a suitable condition on the nonlinearity (which is likely optimal) and assuming that Neumann or Robin boundary conditions are imposed at the boundary, we show that constant positive solutions cannot exist. A relevant consequence of our results is that we can extend to weak solutions a celebrated result obtained for stable solutions by Casten and Holland and by Matano. This is a joint work with G. Ciraolo and A. Roncoroni.*

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