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Title: A Priori Bounds for Positive Solutions of Semilinear Elliptic Systems in \mathbb{R}^2

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Abstract: Our purpose in this talk is to establish a priori bounds for positive solutions of a class of semilinear elliptic systems defined in a bounded and convex domain of \mathbb{R}^2 with smooth boundary. We have results concerning such bounds under two different sets of assumptions on the nonlinearities. This is a joint work with Djairo G. de Figueiredo and Bernhard Ruf.