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Andrea Cianchi* (cianchi@unifi.it), Piazza Ghiberti 27, 50122 Firenze, Italy. *Mountain pass type solutions to fully anisotropic elliptic problems.*

The existence of a nontrivial bounded solution to the Dirichlet problem, for a class of fully anisotropic nonlinear partial differential elliptic equations, is established. The relevant solution is obtained as a critical point of a non-coercive functional, associated with an energy integral whose dependence on the gradient is through a general convex function. This function need not be radial, nor have a polynomial type growth. Besides providing genuinely new conclusions, our result recovers and embraces, in a unified framework, several contributions in the existing literature, and augments them in various special instances. This is a joint work with G.Barletta. (Received February 10, 2015)