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Jason H Cantarella* (jason@math.uga.edu), UGA Math Department, Boyd GSRC, Athens, GA 30602, and **Jason Parsley**. *Helicity and Energy Bounds For Vector Fields*.

We present new results on computing the helicity of vector fields on domains in \mathbf{R}^3 and using the results to derive energy bounds for those fields. (Received September 23, 2010)