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**Brian Simanek\*** (brian\_simanek@baylor.edu) and **Matthew Fleeman**. *Torsional Rigidity and Bergman Polynomials*.

The torsional rigidity of a simply connected domain is a constant indicative of the resistance to twisting of a cylindrical beam with the given cross-section. We will show how one can use Bergman polynomials to calculate or estimate the torsional rigidity of a Jordan domain. Several examples will be discussed that show the simplicity and utility of our algorithm. (Received July 28, 2017)