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Michael William Berglund* (berglund@math.uga.edu), University of Georgia, Department of Mathematics, Athens, GA 30602. *Bounding total curvature of random planar polygons sampled under the symmetric measure.*

By utilizing results known for random matrices, we are able to quantify the intuitive notion that small segments of random polygon forget the closure condition. We can then apply this result to produce bounds on the expectations of various quantities, such as total curvature and self-intersection. (Received August 27, 2013)