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Alan Chang* (alanchang@math.princeton.edu), NJ , and **Marianna Csörnyei**. *The Kakeya needle problem for rectifiable sets.*

We show that the classical results about rotating a line segment in arbitrarily small area, and the existence of a Besicovitch and a Nikodym set hold if we replace the line segment by an arbitrary rectifiable set. This is joint work with Marianna Csörnyei. (Received August 14, 2021)