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Laura Zirbel* (lzirbel@math.ucsb.edu). *Knots in thick, self avoiding random walks in 3-space.* Preliminary report.

We describe a new, ergodic algorithm to generate random walks of specified thickness in \mathbb{R}^3 . We use the data resulting from our implementation of this method to investigate the relationship between the presence and nature of knotting and length and thickness of the random walk. (Received August 16, 2012)