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Jeff A Suzuki* (jeff_suzuki@yahoo.com), Department of Mathematics, Brooklyn College, 2900 Bedford Ave., Brooklyn, NY 11210. *Cut My Cote: When Geometry Met Fashion.*

The width of a bolt of fabric is determined by the width of the loom. Consequently tailors must cut and piece garments from rectangles of fixed width and arbitrary length. To avoid wasting material, tailors throughout the millennia have adopted a number of strategies to cut the fabric that simultaneously minimizes waste while allowing them to produce more flattering garments. We will take a look at some of these strategies, which involve ideas from geometry that include tessellations, symmetry, congruence, and similarity. (Received September 09, 2008)