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Jaegil Kim* (jkim@math.kent.edu), Kent, OH 44242. *On the local minimality of the volume product.*

Mahler's conjecture asks whether the cube is a minimizer for the volume product of a body and its polar in the class of symmetric convex bodies in a fixed dimension. It is also asking whether or not the simplex is a minimizer for the volume product in the non-symmetric setting. In this talk we discuss the local minimality of the volume product at some polytopes. (Received September 03, 2012)