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Alina Stancu* (alina.stancu@concordia.ca), Department of Mathematics and Statistics, 1455 Blvd de Maisonneuve West, Montreal, Quebec H3G 1M8, Canada. *A class of geometric inequalities for convex bodies*. Preliminary report.

Introduced by Lutwak, the Brunn-Minkowski-Firey theory of convex bodies, also called the L_p theory of convex bodies, gave rise to many new problems in convex geometry some of which generalize classical ones. While for p greater than one, the theory is somewhat well understood, and many problems have been settled, more questions remain for p between zero and one, or p negative. In this talk, we will focus on a class of L_p geometric inequalities for convex bodies for p between zero and one. (Received August 14, 2013)