1049-46-149 Sergey G Bobkov* (bobkov@math.umn.edu), 127 Vincent Hall, 206 Church St. S.E., School of Mathematics, University of Minnesota, Minneapolis, MN 55455. *Hensley's theorem and isotropic* positions of convex measures.

Hensley's theorem (1980) asserts that, for any symmetric convex body in the Euclidean space, one can choose a coordinate system with respect to which all body's central sections have approximately equal size. This observation will be considered for finite symmetric convex measures in terms of suitable isotropic positions. As a basic tool, we extend K. Ball's relationship between convex bodies and finite logarithmically concave measures to a larger class of distributions, satisfying convexity conditions of the Brunn–Minkowski type. (Received March 02, 2009)