1120-52-238   **Christos Saroglou*** (`christos.saroglou@gmail.com`), 233 MSB, 1300 Lefton Esplanade, Kent, OH 44242. *On the equivalence between two problems of asymmetry on convex bodies.*

The simplex was conjectured to be the extremal convex body for the two following "problems of asymmetry":

P1) What is the minimal possible value of the quantity $\max_{K'} |K'|/|K|$? Here, K' ranges over all symmetric convex bodies contained in K.

P2) What is the maximal possible volume of the Blaschke-body of a convex body of volume 1?

Our main result states that (P1) and (P2) admit precisely the same solutions. This complements a result from [K. Böröczky, I. Bárány, E. Makai Jr. and J. Pach, (Received February 22, 2016)