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A max-min property of the ball

I will present recent joint work with Davide Carazzato and Ihsan Topaloglu on maximizing a functional that involves the minimization of the Wasserstein distance between disjoint sets of equal volume. The functional appears as a repulsive interaction term in some models describing biological membranes. Using a symmetrization-by-reflection technique, we show that balls are the unique maximizers of the functional.