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Florian Besau, Steven Hoehner* (steven.hoehner@farmingdale.edu) and **Gil Kur**. *The intrinsic volume deviation of the Euclidean ball and a polytope.*

We provide sharp estimates for the asymptotic best approximation of the Euclidean unit ball by polytopes under a notion of intrinsic volume deviation. In the case of arbitrarily positioned polytopes, we generalize results on the symmetric volume difference and surface area deviation from papers of Hoehner, Ludwig, Kur, Schütt and Werner. (Received November 08, 2018)