1120-52-112Elisabeth M Werner* (elisabeth.werner@case.edu), Steven Hoehner and Carsten
Schuett. Approximation of convex bodies by polytopes.

How well can a convex body be approximated by a polytope? This is a fundamental question in convex geometry, also in view of applications in many other areas of mathematics and related fields. It often involves side conditions like a prescribed number of vertices, or, more generally, k-dimensional faces and a requirement that the body contains the polytope or vice versa. Accuracy of approximation is measured using various metrics. We will present recent results, together with Steven Hoehner and Carsten Schuett, on these issues. (Received February 17, 2016)