1161-52-107 **Sergii Myroshnychenko**, **Kateryna Tatarko*** (tatarko@ualberta.ca) and **Vladyslav Yaskin**. *On the unique determination of ellipsoids by dual intrinsic volumes.*

In this talk, we show that an ellipsoid is uniquely determined up to an isometry by its dual Steiner polynomial. We reduce this result to the moment problem, and as a by-product obtain an alternative proof of the analogous known result for classical Steiner polynomials in $\mathbb{R}^3$. This is joint work with S. Myroshnychenko and V. Yaskin. (Received August 13, 2020)