1104-52-261 **Vladyslav Yaskin*** (yaskin@ualberta.ca) and **Ning Zhang**. *Non-central sections of convex bodies.* Preliminary report.

In recent years a lot of attention has been attracted to the following open problem, suggested by Barker and Larman. Let K and L be convex bodies in $\mathbb{R}^n$ ($n \geq 2$) that contain a Euclidean ball B in their interiors. If $\mathrm{vol}_{n-1}(K \cap H) = \mathrm{vol}_{n-1}(L \cap H)$ for every hyperplane H tangent to B, does it follow that $K = L$? I will talk about some modifications of this problem. (Received September 02, 2014)