## FLOATING BODIES FOR BALL-CONVEX BODIES

## Elisabeth M. Werner

Case Western Reserve University (Joint work with C. Schütt and D. Yalikun)

We consider floating bodies in the class of ball-convex bodies. A right derivative of volume of these floating bodies leads to a surface area measure for ball-convex bodies which we call relative affine surface area. We show that this quantity is a rigid motion invariant, upper semi continuous valuation.