1107-52-23 Zokhrab Mustafaev* (mustafaev@uhcl.edu), 2700 Bay Area Blvd, Department of Mathematics, University of Houston-Clear Lake, Houston, TX 77058, and Horst Martini (horst.martini@mathematik.tu-chemnitz.de), Faculty of Mathematics, Chemnitz University of Technology, 09107 Chemnitz, Germany. *Centered convex bodies and inequalities for cross-section measures.* Preliminary report.

The purpose of this talk is to establish some new results on cross-section measures of centered convex bodies. More precisely, we show some connections between inequalities referring to cross-section measures and well-known affine isoperimetric inequalities. Based on this, we derive affine inequalities involving also new characterizations of ellipsoids. In addition, some related results on three-dimensional zonoids are obtained. Some of our results are also interesting from the viewpoint of the geometry of finite dimensional real Banach spaces (Received November 10, 2014)