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Zokhrab Mustafaev* (mustafaev@uhcl.edu), 2700 Bay Area Blvd, Houston, TX 77058, and
Horst Martini (horst.martini@mathematik.tu-chemnitz.de), 09107 Chemnitz, Germany.

Cross-section measures and their applications in Minkowski spaces. Preliminary report.

We continue to investigate extremal values of inner and outer radii of the unit ball in Minkowski spaces (i.e., finite dimensional real Banach spaces) for the Holmes-Thompson and Busemann measures. Furthermore, we give a related new characterization of ellipsoids in \mathbf{R}^d via codimensional cross-section measures. (Received June 12, 2010)