

1065-52-31

Horst Martini* (martini@mathematik.tu-chemnitz.de), Faculty of Mathematics, University of Technology, Chemnitz, 09106 Chemnitz, Saxony, Germany. *Some topics and notions from convexity extended to normed linear spaces.*

In this talk we will discuss some basic topics and notions from classical convexity, e.g. cross-section measures and special classes of convex bodies (like ellipsoids, centrally symmetric bodies or reduced bodies). We will present their role in the geometry of finite dimensional Banach spaces, also called Minkowski geometry, by giving examples how these topics and notions from convexity theory yield new results in Minkowski geometry, as tools and also as studied objects. (Received August 04, 2010)