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Luis A. Caffarelli, Department of Mathematics, University of Texas at Austin, Austin, TX 78712, and **Qingbo Huang***, Department of Mathematics & Statistics, Wright State University, Dayton, OH 45435. *Reflector problem in \mathbb{R}^n endowed with non-Euclidean norm.*

We will discuss formulation, existence, and uniqueness up to dilations for the reflector problem in a nonisotropic medium in \mathbb{R}^n for which light wavefronts are described by non-Euclidean norm spheres. (Received January 17, 2008)