

# A NEW CHARACTERIZATION OF THE RADON-NIKODYM PROPERTY

ABDELHAMID BOURASS, BOUCHAIB FERRAHI, AND NOURDDIN  
SAIDOU

ABSTRACT. We give geometrical properties of lower semi-continuous convex functions and we obtain a characterization of the Radon-Nikodym property on a Banach space  $X$  using geometrical properties of convex functions defined on  $X$ .

DÉPARTEMENT DE MATHÉMATIQUES ET INFORMATIQUES, FACULTÉ DES SCIENCES DE RABAT, UNIVERSITÉ MOHAMED V-AGDAL, B.P. 1014, RABAT, MOROCCO

*E-mail address:* bourass@fsr.ac.ma

*E-mail address:* ferrahi@yahoo.com

*E-mail address:* n.saidou9@caramail.com