

International Electronic Journal of Algebra Volume * (20**) **-** DOI: 00.000000/ieja.000000

CLASSIFICATION OF SOME SPECIAL GENERALIZED DERIVATIONS

M. A. Idrissi and L. Oukhtite

Received: 15 October 2019; Revised: 22 July 2020; Accepted: 27 July 2020 Communicated by A. Çiğdem Özcan

ABSTRACT. The purpose of the present paper is to classify generalized derivations satisfying more specific algebraic identities in a prime ring with involution of the second kind. Some well-known results characterizing commutativity of prime rings by derivations have been generalized by using generalized derivation.

Mathematics Subject Classification (2020): 16N60, 16W10, 16W25. Keywords: Prime ring, involution, commutativity, derivation, generalized derivation.

M. A. Idrissi (Corresponding Author) and L. Oukhtite
Department of Mathematics
Faculty of Science and Technology,
University S. M. Ben Abdellah, Fez
Box 2202, Morocco
e-mails: myabdallahidrissi@gmail.com (M.A. Idrissi)

oukhtitel@hotmail.com (L. Oukhite)