LINEAR 2-NORMED SPACES AND 2-BANACH ALGEBRAS

Panackal Harikrishnan

Department of Mathematics
Manipal Institute of Technology, Manipal University
Manipal , Karnataka, India.
pkharikrishnans@gmail.com

Bernardo Lafuerza Guillén

Department of Statistics and Applied Mathematics
University of Almería, Almería, Spain
blafuerza@gmail.com

K.T. Ravindran

P G Department and Research Centre in Mathematics
Payyanur College, Payyanur, Kerala,India.
drktravindran@gmail.com

The concept of linear 2- normed spaces was introduced by Siegfried Gahler in 1963 [6], which is nothing but a two dimensional analogue of a normed space. This concept had received the attention of a wider audience after the publication of a paper by A. G. White in 1969 entitled 2-Banach spaces [7]. In this talk we would like to present the recent developments in Linear 2-normed spaces and 2-Banach algebras. We introduce the idea of expansive, non-expansive and contraction mappings in linear 2-normed spaces eventually some of its properties are established. The analogous of Banach fixed point theorem for contraction mappings in linear 2- normed spaces is obtained, which leads to the existence of the solution of strong accretive operator equation in linear 2-normed space. Some more analogues results in Linear 2-normed spaces and 2-Banach algebras are obtained.

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