

1113-46-115

Han Ju Lee* (hjlee.math@gmail.com), Seoul, 100-715, South Korea. *The Bishop-Phelps-Bollobás property for numerical radius.*

There have been many researches about the Bishop-Phelps theorem for numerical radius. That is, it is a study about the denseness of numerical radius attaining operators in the space of bounded linear operators on a Banach space. Recently, the notion of the Bishop-Phelps-Bollobás property for numerical radius has been introduced and it was shown that L_1 and $C(K)$ spaces have this property. We show that some classical Banach spaces (e.g. L_p , $1 < p < \infty$) have this property. We also give some examples where the set of numerical radius attaining operators is dense in the space of bounded linear operators, however it does not have the Bishop-Phelps-Bollobás property for numerical radius. (Received August 16, 2015)