ON LINEAR MAPS COMPRESSING OR DEPRESSING CERTAIN SUBSPACES

M'HAMED ELHODAIBI* AND ALI JAATIT

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ABSTRACT. Let X be a complex Banach space and let $\mathcal{L}(X)$ be the Banach algebra of all bounded linear operators on X. We characterize surjective linear maps $\phi : \mathcal{L}(X) \to \mathcal{L}(X)$ compressing or depressing any one of the range, the hyper-range, the analytic core and the kernel.

DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCES, UNIVERSITY MOHAMMED FIRST, 60000 OUJDA, MOROCCO.
  E-mail address: hodaibi2001@yahoo.fr
  E-mail address: a.jaatit@hotmail.com