

A SOLUTION TO A PROBLEM OF ABRAMOVICH, ALIPRANTIS AND BURKINSHAW

Mert ÇAĞLAR

İstanbul Kültür University
Department of Mathematics and Computer Science

Abstract. A problem posed by Abramovich, Aliprantis and Burkinshaw in [1] asks whether there exists a non-trivial closed B -invariant subspace, or a T -invariant subspace, or a common invariant subspace for B and T when B and T are two commuting positive operators on a Banach lattice such that B is compact-friendly and T is locally quasi-nilpotent. A solution to this problem, which is a joint work with Tunç Mısırlıoğlu from İstanbul University, constitutes the subject matter of this talk.

References

- [1] Y.A. Abramovich, C.D. Aliprantis & O. Burkinshaw, “The invariant subspace problem: some recent advances,” in *Workshop on Measure Theory and Real Analysis* (italian) (Grado, 1995); *Rend. Inst. Mat. Univ. Trieste* **29** (1998), suppl., 3-79 (1999).