

---

**MEHMET ORHON**, Mathematics and Statistics Dept., University of New Hampshire  
*Reflexivity of Banach  $C(K)$ -modules via the reflexivity of Banach lattices*

It is well known that a Banach lattice is reflexive if and only if it does not contain any subspace isomorphic to  $l^1$  or to  $c_0$  (Lozanovskii). Let  $K$  be a compact Hausdorff space and let  $C(K)$  be the complex-valued continuous functions on  $K$ . Suppose  $X$  is a finitely generated Banach  $C(K)$ -module. We show that  $X$  is reflexive if and only if  $X$  does not contain any subspace isomorphic to  $l^1$  or to  $c_0$ . The proof uses Lozanovskii's Theorem. On the other hand, the well known James space provides an example that shows the hypothesis that  $X$  is finitely generated cannot be relaxed in general.

(joint work with Arkady Kitover)