

1114-47-214

**Arkady Kitover** and **Mehmet Orhon\*** (mo@unh.edu), Department of Mathematics and Statistics, University of New Hampshire, Durham, NH 03824. *Dual Radon-Nikodym Property in finitely generated Banach  $C(K)$ -modules*. Preliminary report.

A well known theorem of Lotz states that the dual of a Banach lattice has the Radon-Nikodym Property (RNP) if and only if the Banach lattice does not contain a copy of  $l^1$ . Using a result of Lotz and Rosenthal, we extend Lotz's Theorem to the finitely generated Banach  $C(K)$ -modules. Namely, we show that the dual of a finitely generated Banach  $C(K)$ -module has the RNP if and only if each cyclic subspace of the module does not contain a copy of  $l^1$ .

This complements our previous results about the reflexivity and the weak sequential completeness of finitely generated Banach  $C(K)$ -modules. (Received August 27, 2015)