ANALYSIS SEMINAR

THE RADON-NIKODYM PROPERTY FOR THE PROJECTIVE TENSOR PRODUCT OF KÖTHE FUNCTION SPACES

QINGYING BU

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ABSTRACT Let E be an order continuous Köthe function space and X be a Banach space. We first show that $E \hat{\otimes} X^*$, the projective tensor product of E and X^* , semi-embeds into $E(X^*)$, the Köthe-Bochner function space. Then by this we show that $E \hat{\otimes} X^*$ has the Radon-Nikodym property if and only if both E and X^* do. (This is a joint work with Dr. Pei Kee-Lin)