

1025-46-68

Qingying Bu* (qbu@olemiss.edu), Department of Mathematics, The University of Mississippi,
Oxford, MS 38677. *Radon-Nikodym property for tensor products of Banach lattices.*

It is known that the projective tensor product $X\hat{\otimes}Y$ of two Banach lattices may not be a lattice while the Fremlin projective tensor product $X\hat{\otimes}_FY$ always is a lattice. In this talk, we will discuss in what conditions $X\hat{\otimes}Y = X\hat{\otimes}_FY$ and in what conditions the Radon-Nikodym property can be inherited from Banach lattices X and Y to their projective tensor product $X\hat{\otimes}Y$ and to their Fremlin projective tensor product $X\hat{\otimes}_FY$. (Received January 12, 2007)