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The Radon-Nikodym Property in Banach spaces via the Chaney-Schaefer I-tensor product

The Radon-Nikodym property in Banach spaces can be described by martingale convergence in Bochner spaces. We use ideas from measure-free martingale theory to extend this description to the Chaney-Schaefer I-tensor product. As an application, we give a representation of a set-valued measure of risk, defined on a Banach space-valued Orlicz heart.