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convinced that Bochner measurability is analogous to Lebesgue measurability. A function $s : Q \rightarrow B$ is called a countably-valued measurable function iff it can be written as $s = \sum_{k=1}^{\infty} \chi_{E_k} x_k$, where the sets $E_k \subset Q$ are measurable and $x_k \in B$ ($k \in \mathbb{N}$). In general, Bochner measurability is defined as follows: Definition B.2.1 (Bochner measurability) A ...

Appendix B Integration and Differentiation in Banach Spaces

written as the characteristic function of a finite measure. Theorem 1.1 [Bochner's Theorem] Let μ be a positive finite measure which is continuous at 0 with $\mu(\{0\}) = 1$.

Lecture 7 - National University of Singapore

Given $A \subset B$, it follows from an approximation argument and the corresponding properties of simple functions that $L(A, E)$ is a vector space ...

The Bochner integral and vector-valued L_p -spaces

derivative in the square function behaves as if it is a multiplier of order (± 1) and the derivative \hat{f}/\hat{f} makes L_p estimate possible by mitigating bad behavior near the origin. In this paper we are concerned with the estimate (4) $\|G_{\pm} f\|_p \leq C \|f\|_p$. The L_p estimate for the square function has various consequences and applications. First of ...

arXiv:1708.01084v2 [math.CA] 12 Aug 2017

PDF | In this paper, criteria for uniform rotundity of Musielak-Orlicz-Bochner function spaces equipped with Orlicz norm are given. We also prove that, in Musielak-Orlicz-Bochner function spaces ...

(PDF) Uniform Rotundity and k -Uniform Rotundity in

Gaussian measures and Bochner's theorem Jordan Bell jordan.bell@gmail.com Department of Mathematics, University of Toronto April 30, 2015 1 Fourier transforms of measures

Gaussian measures and Bochner's theorem

Fourier transform of a radial function is again radial. Indeed, Theorem 2.1.2 Let $f \in L^1(\mathbb{R}^n)$ be continuous and radial, i.e., $f(x) = f(|x|)$. Then its Fourier transform \hat{f} is also radial, i.e., $\hat{f}(\xi) = F(|\xi|)$ with $F(r) = \int_{\mathbb{R}^n} f(x) e^{-i \xi \cdot x} dx = \int_0^\infty f(t) J_{n/2-1}(rt) t^{n/2-1} dt$; where J_{ν} is the classical Bessel function of the first kind of order ν .

Positive Definite and Completely Monotone Functions

The Bochner integral is defined in much the same way as the Lebesgue integral. First, a simple function is

any finite sum of the form $\sum_{i=1}^n b_i \chi_{E_i}$ where the E_i are disjoint members of the σ -algebra \mathcal{E} , the b_i are distinct elements of B , and χ_E is the characteristic function of E .

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