ERRATUM TO "MARTINGALES OF STRONGLY MEASURABLE PETTIS INTEGRABLE FUNCTIONS"

BY

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The discussion immediately before the statement of Theorem 2.3 of [1] is incorrect. Effectively it assumes that if $\mathcal{F}$ is a field and $\sigma(\mathcal{F})$ the $\sigma$-field generated by $\mathcal{F}$, then a $\sigma$-finite measure on $\sigma(\mathcal{F})$ must be $\sigma$-finite on $\mathcal{F}$. This is easily seen to be false. To correct this situation, add the following statement to the hypothesis of Theorems 2.3 and 3.1 of [1].

(*) For each $E \in \bigcup_r B_r$ with $\mu(E) > 0$ there is $E' \in \bigcup_r B_r$ with $\mu(E') > 0$ and $\sup_r \int_{E'} \|f\| \, d\mu < \infty$.

Condition (*) ensures in the discussion immediately before the statement of Theorem 2.3 of [1] that the measure $\int \|f\| \, d\mu$ is $\sigma$-finite relative to $\bigcup_r B_r$ and the argument is now correct.

REFERENCE


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