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Positivity

CORRECTION

Correction to: Measures under the flat norm as ordered normed vector space

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Corollary 4.16 needs to be restated as

Corollary 4.16 *$\mathcal{M}^s_+(S)$ is a cone of $\mathcal{M}(S)$.*

$\mathcal{M}^t_+(S)$ is a cone of $\mathcal{M}(S)$ if S is complete, because then $\mathcal{M}^t_+(S) = M^s_+(S)$. In general, $\mathcal{M}^t_+(S)$ is not a cone of $\mathcal{M}(S)$ because it is not closed.

It follows from Remark 4.20 that $\mathcal{M}^t_+(S)$ is dense in $\mathcal{M}^s_+(S)$. Assume that $\mathcal{M}^t_+(S)$ is closed and S is separable. Then, $\mathcal{M}^t_+(S) = \mathcal{M}_+(S)$. This implies that S is universally measurable; however, not all separable metric spaces are universally measurable ([1, Sect. 11.5]).

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