A Further Investigation for Egoroff's Theorem with Respect to Monotone Set Functions.

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Abstract: In this paper, we investigate Egoroff's theorem with respect to monotone set function, and show that a necessary and sufficient condition that Egoroff's theorem remain valid for monotone set function is that the monotone set function fulfill condition (E). Therefore Egoroff's theorem for non-additive measure is formulated in full generality.