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# MATHEMATICAL EXPECTATION AND STRONG LAW OF LARGE NUMBERS FOR RANDOM VARIABLES WITH VALUES IN A METRIC SPACE OF NEGATIVE CURVATURE

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*Abstract:* Let $f$ be a random variable with values in a metric space $(X, d)$. For some class of metric spaces we define in terms of the metric $d$ mathematical expectation of $f$ as a closed bounded and non-empty subset of $X$. We then prove Kolmogorov's version of Strong Law of Large Numbers corresponding to that mathematical expectation.

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