

LAWS OF LARGE NUMBERS FOR TWO TAILED PARETO RANDOM VARIABLES

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Abstract: We sample m random variables from a two tailed Pareto distribution. A two tailed Pareto distribution is a random variable whose right tail is px^{-2} and whose left tail is qx^{-2} , where $p + q = 1$. Next, we look at the largest of these random variables and establish various Weak and Strong Laws that can be obtained with weighted sums of these random variables. The case of $m = 1$ is completely different from $m > 1$.

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Key words and phrases: Almost sure convergence; weak law of large numbers; strong law of large numbers.

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