

GENERAL THEOREMS ON EXPONENTIAL AND ROSENTHAL'S INEQUALITIES AND ON COMPLETE CONVERGENCE

ISTVÁN FAZEKAS, SÁNDOR PECSORA AND BETTINA PORVÁZSNYIK

Abstract. Exponential inequalities are obtained under general conditions. Then it is shown that an exponential inequality implies both Rosenthal's inequality and complete convergence of sums of random variables. The general results are applied to weakly orthant dependent sequences.

Mathematics subject classification (2010): 60F15, 60G50.

Keywords and phrases: Exponential inequality, Rosenthal's inequality, strong law of large numbers, complete convergence, acceptable random variables, weakly orthant dependent sequences.

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