

REARRANGEMENTS OF SEQUENCES OF RANDOM VARIABLES AND  
EXPONENTIAL INEQUALITIES

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*Abstract:* Exponential bounds are studied for  $P(\|X_1 + \dots + X_n\| > t)$ , where  $(X_1, \dots, X_n)$  denotes a sequence of independent random variables with values in a real separable Banach space  $(B, \|\cdot\|)$ . In our results the usual boundedness assumptions on  $\|X_1\|, \dots, \|X_n\|$ , are replaced by hypotheses on the weak  $l_p$ -norm of the sequence  $(\|X_1\|, \dots, \|X_n\|)$ .

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