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## A probabilistic inequality for sums of bounded symmetric independent random variables

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### Abstract

An inequality  $\int_{x-x+2} P\{|\sum_{i=1}^n \xi_i| \geq t\} dt \leq \int_{x-x+2} P\{|\sum_{i=1}^n \varepsilon_i| \geq t\} dt$  is proved which describes an extremal property of a two-point distribution within the class of symmetric distributions with bounded support. © 1997 Plenum Publishing Corporation.

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