

[Artstein, Shiri; Ball, Keith M.; Barthe, Franck; Naor, Assaf](#)

**On the rate of convergence in the entropic central limit theorem.** (English) Zbl 1055.94004

[Probab. Theory Relat. Fields](#) 129, No. 3, 381-390 (2004).

The authors study the rate at which entropy is produced by linear combinations of independent random variables which satisfy a spectral gap condition. This is done by considering a reduction to an inequality for Fisher information and using variational representations of it. Then techniques are used to produce an optimal test function.

**MSC:**

[94A17](#) Measures of information, entropy

[60F05](#) Central limit and other weak theorems

Cited in **19** Documents

**Keywords:**

[entropy](#); [Fisher information](#); [convergence in the central limit theorem](#)

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