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Weak perturbations of the massless Gaussian measure. (English) [Zbl 0829.60035](#)

Rivasseau, Vincent (ed.), Constructive physics. Results in field theory, statistical mechanics and condensed matter physics. Proceedings of the conference, held at Ecole Polytechnique, Palaiseau, France, 25-27 July, 1994. Berlin: Springer-Verlag. Lect. Notes Phys. 446, 37-49 (1995).

Summary: This is a summary of some ideas and estimates that simplify the analysis of scaling limits of infinite volume limits of measures of the form $\frac{1}{Z} d\mu(\varphi) e^{\int dx f(\varphi, \partial\varphi, \partial\partial\varphi, \dots)}$, where $d\mu(\varphi)$ is a Gaussian measure with long range correlations.

For the entire collection see [\[Zbl 0816.00038\]](#).

MSC:

[60G40](#) Stopping times; optimal stopping problems; gambling theory

[60B05](#) Probability measures on topological spaces

Cited in **2** Documents

Keywords:

scaling limits; Gaussian measure; long range correlations