

**Asymptotic "inner shape" of a deformed gradient Gibbs field.**

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Statistical physics of gradient Gibbs measures and their role for a variational characterisation of nonlinear elasticity in terms of large deviations will be discussed. The proof of quasi-convexity of the free energy will be mentioned and the asymptotic behaviour in terms of gradient Gibbs-Young measures will be presented.

The talk is mainly based on a joint work with Stephan Luckhaus.