

Gamma-convergence and stochastic homogenisation of free-discontinuity functionals

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We study Gamma-convergence of sequences of free-discontinuity functionals. The main results are: compactness with respect to Gamma-convergence, representation of the Gamma-limit in an integral form, and homogenisation formulas without periodicity assumptions. These results are then applied to stochastic homogenisation of free-discontinuity functionals.