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Localization principle and relaxation

Jean-Philippe Mandallena

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Relaxation theorems for multiple integrals on $W^{1,p}(\Omega;\mathbb{R}^m)$, where $p\in]1,\infty[$, are proved under general conditions on the integrand $L:\mathbb{M}\to[0,\infty]$ which is Borel measurable and not necessarily finite. We involve a localization principle that we previously used to prove a general lower semicontinuity result. We apply these general results to the relaxation of nonconvex integrals with exponential-growth.

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