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Lower Semicontinuity in BV of quasiconvex integrands of subquadratic growth.

Abstract. A lower semicontinuity result in BV is obtained for quasiconvex integrals of sub-quadratic growth, defined on generalised Orlicz-Sobolev Spaces. The key step in this proof involves adapting techniques of Meyers and Malý to obtain some boundedness properties for an extension operator. A similar result is obtained by Kristensen in, where there are weaker assumptions on convergence but the integral needs to satisfy a stronger growth condition.