

H-convergence of monotone operators

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The lectures will be devoted to the homogenization of equations of the form

$$-\operatorname{div} a(x, Du) = f,$$

with a monotone. If $a(x, p)$ and its inverse are strongly monotone with conjugate growth, then homogenization is classical and follows the method developed by L. Tartar. This will be the object of the first part of the course. Then, we will consider the more general case where a is now a maximal monotone graph and develop an existence and homogenization theory in that setting.