

**Mês de:                    ABRIL 2014**

**SEMINÁRIO DE ANÁLISE E EQUAÇÕES  
DIFERENCIAIS**

**Dia 3 de Abril (quinta-feira), às 13:30h, na Sala B3-01**

Some unilateral Korn inequalities with applications to a periodic  
homogenization problem in linear elasticity with inclusions

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**Abstract:**

The study of a periodic homogenization problem in linear elasticity with inclusions leads to a variational inequality associated with the minimization of a convex functional. The coercivity of this functional is obtained through the use of a new type of Korn inequalities. We present the proof of these inequalities and show how they also apply to the homogenization problem provided appropriate hypotheses are made on the data.

Apoio:



**PEst-OE/MAT/UI0209/2013**

Local:

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