



**Centro de Investigação em Matemática e Aplicações
Departamento de Matemática**

Seminário

**12 de Julho de 2011, Terça-feira
CLAV – Anf. 1 - 14:00 horas**

Weak convergence theory for integral functionals with the standard growth

Mikhail A. Sychev

Sobolev's Institute of Mathematics, Siberian Branch of Russian academy of Sciences, Novosibirsk, Russia

Resumo

In this lecture we discuss applications of Young measure theory to weak convergence theory for integral functionals with the standard growth. The weak convergence theory includes four theorems: lower semicontinuity, relaxation, convergence with a functional and a general theorem, which explains how the set where convergence in energy property holds is related to the relaxation theorem.