



**Mês de: Julho 2011**

## **SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS**

**Dia 7 de Julho (quinta-feira), às 13h15, na Sala B3-01**

“First and second order methods for topology optimization with constraints”

**Samuel Amstutz**

(Université d'Avignon)

**Abstract:**

In this talk I will present different aspects of topology optimization with constraints, based on topological sensitivity analysis. I will start by stating optimality conditions in a rather general setting. Then, I will describe some solution methods adapted to problems of different natures : Uzawa type methods for problems with smooth Lagrange multiplier, penalty methods for pointwise constraints, and Newton type methods for some special cases.

Parcialmente suportado pela FCT ao abrigo do Financiamento Base

Local:

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