



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

## **Seminário**

**28 de Outubro de 2011, Sexta-feira  
CLAV – Anf. 4 - 15:00 horas**

# **On Some Operator Methods in Theory of Differential and Functional Differential Inclusions**

***Valeriy V. Obukhovskiy***

Voronezh State University, Rússia

## **Resumo**

We apply the methods of the topological degree theory for non-compact multivalued maps to obtain some results on existence of solutions, optimal solutions, periodic solutions, on controllability problems for systems governed by various classes of differential and functional differential inclusions in Banach spaces: semilinear, inclusions with non-densely defined linear parts, inclusions with impulse effects, inclusions of fractional order.