

Centro de Investigação em Matemática e Aplicações Departamento de Matemática

Seminário

30 de Junho de 2011, Quinta-feira CLAV – Anf. 1 - 14:00 horas

Positive solutions of perturbed Hammerstein integral equations

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Resumo

We discuss the existence of positive solutions of some perturbed Hammerstein integral equations by means of classical fixed point index theory.

We apply our results to some nonlocal BVPs that arise in some heat flow problems to prove the existence of multiple positive solutions under suitable conditions.

We also illustrate how this approach might be applied to different problems.