

Seminario de análisis matemático y aplicaciones
Analisi matematikoa eta aplikazioak mintegia

Mixed finite element approximations of
degenerate elliptic problems

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ABSTRACT: First we recall the mixed finite element method of Raviart-Thomas and review different techniques that have been developed to prove error estimates in the classic elliptic case, in particular those methods that allow to obtain anisotropic error estimates. Then we consider the approximation of non-uniformly elliptic problems as those considered by Fabes, Kenig and Serapioni and prove error estimates for this case. As an example we analyze the approximation of solutions of the fractional Laplacian using the equivalent formulation introduced by Caffarelli and Silvestre.

LUGAR / LEKUA:

Sala de seminarios de la sección de matemáticas
Matematika ataleko mintegi gela

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