DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS AND APPLICATIONS (MS - ID 52)

Evolution problems for fractional operators in irregular domains

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We consider nonlocal diffusion processes in non smooth domains of fractal type as well as in the corresponding smoother approximating domains. Existence, uniqueness and regularity issues will be discussed. The asymptotic behaviour of the smoother solutions, if any, will be discussed.

These results are contained in joint papers with S.Creo and P. Vernole