

A NON-LOCAL P-LAPLACIAN EVOLUTION PROBLEM

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We study existence, uniqueness and the limit as p goes to infinity of solutions to the non-local equation

$$u_t(x, t) = \int_{\Omega} J(x - y) |u(y, t) - u(x, t)|^{p-2} (u(y, t) - u(x, t)) dy$$

Joint work with F Andreu, J M Mazon and J Toledo