

Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)
Vol. XIV (2015), 481-505

Convergence of flux-limited porous media diffusion equations to their classical counterpart

VICENT CASELLES

Abstract. We prove the convergence of a porous medium type flux-limited diffusion equation to the classical porous medium equation as the parameter c representing the maximum speed of propagation tends to ∞ .

Mathematics Subject Classification (2010): 35K59 (primary); 47H06, 35A01, 35K15 (secondary).