

Asymptotic Behavior of systems of PDE arising in physics and biology:
theoretical and numerical points of view (ABPDE II)

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Entropy methods for degenerate diffusions and weighted functional inequalities

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We will present results on large time asymptotics for some fast diffusion equations with power law weights. We will show that, for such diffusions, new phenomena appear : the asymptotic rates of convergence, obtained by linearization, are not global, the underlying functional inequalities may experience symmetry breaking and the Barenblatt self-similar profiles is not optimal.

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