

Descombes, Stéphane; Duarte, Max; Dumont, Thierry; Laurent, Frédérique; Louvet, Violaine; Massot, Marc

Analysis of operator splitting in the nonasymptotic regime for nonlinear reaction-diffusion equations. Application to the dynamics of premixed flames. (English) [Zbl 1320.65080](#)
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MSC:

- 65J08 Numerical solutions to abstract evolution equations
- 35K57 Reaction-diffusion equations
- 35A35 Theoretical approximation in context of PDEs
- 35C07 Traveling wave solutions
- 65L04 Numerical methods for stiff equations
- 65M20 Method of lines for initial value and initial-boundary value problems involving PDEs
- 80A25 Combustion
- 65M15 Error bounds for initial value and initial-boundary value problems involving PDEs

Cited in **5** Documents**Keywords:**

operator splitting; error bounds; reaction-diffusion; traveling waves; combustion

Full Text: [DOI](#) [arXiv](#)