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Global and Blowup Solutions for General Quasilinear Parabolic Systems

This talk discusses global and blowup solutions of the general quasilinear parabolic system  $u_t = \alpha(u,v)\Delta u + f(u,v,Du)$  and  $v_t = \beta(u,v)\Delta v + g(u,v,Dv)$  with homogeneous Dirichlet boundary conditions. We will give sufficient conditions such that the solutions either exist globally or blow up in a finite time. In special cases, a necessary and sufficient condition for global existence is given. We also discuss a degenerate case.