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For example, PDEs are used in mathematical models of weather and climate, in medical imaging technologies, in the design of new composite materials, in models of elementary particle interaction and of the formation of galaxies, in models of cancerous tumor growth or of blood flow in the heart, in simulating semiconductor devices, in models of bacterial colonies, in models of financial markets and asset price bubbles, in describing the flocking behavior of birds and fish.

## *PDE & Dynamical Systems | Department of Mathematics*

1 Introduction The mathematical models for many problems around us are in the form of partial differential equations (PDEs) in high dimensions. Notable examples include: The Hamilton-Jacobi-Bellman (HJB) equation in control theory @u

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verbeteringen kunnen aanbrengen, en om advertenties weer  
te geven.

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almost all applications of mathematics, where they provide a  
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This motivates the mathematical study of the details of singularity formation in nonlinear PDEs. Our group focuses on the investigation of blowup dynamics in nonlinear wave equations and heat flows in the so-called energy supercritical case. We mainly use tools from functional analysis, operator theory and spectral analysis as well as ODE methods.

*Nachwuchsgruppe Singularity formation in nonlinear PDEs*  
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nonlinear dynamics of PDEs, with a focus on problems over unbounded domains and modulation equations. The presentation is example-oriented, and new mathematical tools are developed step by step, giving insight into some important classes of nonlinear PDEs and

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Abstract. The solution of nonlinear mathematical models has much importance and in soliton theory its worth has increased. In the present article, we have investigated the

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Caudrey-Dodd-Gibbon and Pochhammer-Chree equations, to discuss the physics of these equations and to attain soliton solutions.

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General Information Mathematical models of phenomena in the physical sciences or processes in the engineering and biological sciences invariably take the form of nonlinear dynamical systems and partial differential equations (PDEs).

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