

Doubly Nonlinear Anisotropic Parabolic PDEs

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In this talk we discuss qualitative properties of weak solutions to a class of nonlinear anisotropic parabolic partial differential equations. These equations arise in models where diffusion may behave differently in each spatial direction, leading to operators with direction-dependent growth and nonstandard structure. These results illustrate how classical tools from the De Giorgi–Nash–Moser theory can be adapted to anisotropic frameworks, providing a general approach to the study of nonlinear parabolic problems with direction-dependent diffusion.

References

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