Preface

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Erhard Heinz died on 29 December 2017 at the age of 93. For his outstanding contributions to mathematics, the DMV awarded him the Cantor Medal in 1994. Willi Jäger and Friedrich Sauvigny give an overview about Erhard Heinz's scientific contributions to spectral theory, minimal surfaces, nonlinear elliptic systems, Monge-Ampère equations, nonlinear evolution equations, and the Plateau problem. These are related to subsequent developments.

In “Facing Low Regularity in Chemotaxis Systems” Johannes Lankeit and Michael Winkler review some recent blow-up results for PDE systems describing chemotaxis. Such systems have an outstanding relevance in biomathematical modeling due to their large applicability and their remarkable mathematical features. The authors explain underlying fundamental analytical ideas and discuss some approaches which allow to handle destabilizing effects of chemotactic cross-diffusion.

Moreover, Marc Levine reviews the book “Periods and Nori Motives” by A. Huber and S. Müller-Stach.

We hope that you enjoy reading this issue.

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