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Preface

In: Jan Chleboun and Jan Papež and Karel Segeth and Jakub Šístek and Tomáš Vejchodský (eds.): Programs and Algorithms of Numerical Mathematics, Proceedings of Seminar. Hejnice, June 23-28, 2024. , Prague, 2025. pp. 5–6.

Persistent URL: <http://dml.cz/dmlcz/703221>

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## Preface

These proceedings comprise peer-reviewed papers based on the invited lectures, short communications, and poster presentations from the 22nd seminar *Programs and Algorithms of Numerical Mathematics* (PANM), held at Hejnice Monastery, Czech Republic, from June 23 to 28, 2024.



The seminar was organized by the Institute of Mathematics of the Czech Academy of Sciences under the auspices of EU-MATHS-IN.CZ, the Czech Network for Mathematics in Industry, with financial support from the RSJ Foundation. Continuing the tradition of its predecessors, PANM 2024 followed a long-standing series of biennial (with one exception) seminars on mathematical software and numerical methods, held in various locations — including Alšovice, Bratříkov, Janov nad Nisou, Kořenov, Lázně Libverda, Dolní Maxov, Prague, Hejnice, and Jablonec nad Nisou — since its inception in 1983. The primary objective of these seminars is to provide a platform for discussing advanced topics in numerical analysis, the implementation of numerical algorithms, novel approaches to mathematical modelling, and computational methods for both single- and multi-processor applications.

The seminar welcomed 45 participants, primarily from Czech universities and institutes of the Czech Academy of Sciences, several also from abroad. We particularly value the participation of young scientists, PhD candidates, and undergraduate students. We hope that those attending PANM for the first time found the atmosphere of the seminar both welcoming and stimulating and that they will continue to be part of the PANM community in the future.

The conference photo was taken in front of the Hejnice Monastery that hosted the seminar. We are grateful for the opportunity to return to these inspiring premises after the break in 2022.

The organizing committee comprised Jan Chleboun, Jan Papež, Miro Rozložník, Karel Segeth, Jakub Šístek, and Tomáš Vejchodský. We also extend our sincere thanks to Ms. Hana Bílková for preparing the manuscripts for both the electronic and print versions of these proceedings.

Finally, the editors and organizers wish to thank to all participants for their valuable contributions and, in particular, to the scientists who dedicated their time to reviewing the submitted manuscripts.

*Editors*