

# PROGRAM OF THE AM2023 CONFERENCE

**Thursday, May 11**

12:30–13:00 Registration

13:00–13:15 Opening (Tomáš Vejchodský, Michal Křížek)

Chair: Michal Křížek

13:15–14:15 **Jan Brandts**, A Lie Group & Lie Algebra-Based Newton Method for an NP-hard Cone Problem

14:15–14:45 **Miroslav Pospíšek**, Něco z minulosti, něco z přítomnosti

14:45–15:15 **Vítězslav Vít Vlček**, Historie a současnost platformy IBM

15:15–15:45 Coffee Break

Chair: Miroslav Rozložník

15:45–16:15 **Zdeněk Dostál**, Nice Spectral Properties of Boundary Element Matrices and Domain Decomposition

16:15–16:35 **Antonín Slavík**, Mathematics of the Cody Dock Bridge

16:35–16:55 **Josef Ježek**, Spolupráce s Karlem Segethem

17:00–23:00 **Conference Party**

## Friday, May 12

Chair: Jakub Šístek

9:00–9:30 **Jaroslav Mlýnek**, Mathematical Modelling of Fibre Winding for Polymer Composite Frame

9:30–10:00 **Jana Příhonská**, “ $06 \cdot (05 + 07) + 08 = 80$ ”  
aneb s matematikou v Liberci

10:00–10:30 **Jan Chleboun, Judita Runczиковá**, Effects of uncertain parameters on a ratcheting model response

10:30–11:00 Coffee Break

Chair: Jan Chleboun

11:00–11:30 **Jakub Šístek**, Scalable domain decomposition solver for immersed boundary FEM with adaptive mesh refinement

11:30–11:55 **Jim Byrnes**, The Energy Spreading PONS Transform and its Applications

11:55–12:10 **Eva Feuerstein**, Innovative Teaching Education Mathematics — short review

12:10–12:15 **Michal Křížek**, Closing the Conference