

INVITATION TO THE LECTURE

MAY 13, 2026

12:30

ROOM 213

ADDITIVE SCHUR COMPLEMENT APPROXIMATION FOR GRAPH LAPLACIAN

Tomáš Lubér

Institute of Geonics, Czech Academy of Sciences, Ostrava

The Additive Schur Complement Approximation is a preconditioner construction method that combines the approaches of algebraic multigrid and domain decomposition methods. The aim of this presentation is to present the method and show its application for a class of matrices that can be interpreted as graph Laplacians. The graph structure will be used to present core ideas that are responsible for the robustness of the preconditioner.