THE UNIVERSITY



OF HONG KONG

Institute of Mathematical Research Department of Mathematics

Numerical Analysis Seminar

From the Glowinski-Le Tallec splitting in Lagrangian optimization to approximations of nonlinear Kawarada equation solutions

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Abstract

This study delves into the profound Glowinski-Le Tallec formula and its applications to the numerical solution of a family of important partial differential equation initial-boundary value problems. It will be shown in our straightforward mathematical analysis that the nonconventional splitting method provides not only an effective enhancement to traditional decomposition strategies, but also a more flexible way for multi-parameter splitting operator configurations for approximating solutions of multidimensional nonlinear partial differential equations.

Date:January 14, 2025 (Tuesday)Time:4:00 pm - 5:00 pmVenue:Room 210, Run Run ShawBuilding, HKU

All are welcome