MAFIA - the seminar you can't refuse

Symmetrization for Nonlinear Robin Problems

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Fakulta jaderná a fyzikálně inženýrská ČVUT
Trojanova 13, 12000 Praha

Abstract: We examine the p-Poisson equation with Robin boundary conditions, where the Robin parameter is a function. By employing both the classical Schwarz rearrangement and an appropriate weighted symmetrization, we establish various bounds for the solution of the problem. In the case of weighted symmetrization, we additionally derive a Faber-Krahn-type inequality. This presentation is based on some joint works with A. Alvino, V. Amato, A. Gentile, C. Nitsch, and C. Trombetti.