

IMPROVEMENT OF THE ACCURACY OF MULTI-GRID
METHOD WITH FINITE DIFFERENCE DISCRETIZATION
(MGFDD)

Zsuzsanna Szabó

Abstract. We present an approach method to realize a higher order interpolation in two dimension and its use as prolongation in MGFDD. We study the effect of prolongation operator order to the accuracy of this method.

Key words. Multi-grid method, finite difference discretization.

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“Petru Maior” University
Department of Mathematics
Târgu Mureș, Romania
e-mail: szabozs@uttgm.ro