

ON THE COMPLEXITY OF SOME RELATION SCHEMES

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Abstract. The aim of this paper is to make a comparison among the complexity of parallel relaxation schemes (Jacobi, Gauss-Seidel, SOR), according with different way of numbering the nodes of the mesh used in computation.

MSC 2000: 35J05, 65F10, 68W10.

Keywords: PDE, Poisson equation, iterative methods for solving systems, parallel algorithms, complexity of calculus.