

CAN RESTARTED GMRES EXHIBIT ANY NONINCREASING CONVERGENCE CURVE?

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Abstract

This talk continues the work by Arioli, Greenbaum, Ptak and Strakos showing that for full GMRES, any convergence behavior is possible with any spectrum. We will show in what the situation differs if restarted GMRES is considered. We also address prescribing the Ritz values generated during the subsequent restart cycles.