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Spectral properties of the preconditioned AHSS iteration method for generalized saddle point problems. (English) [Zbl 1202.65043](#)

Comput. Appl. Math. 29, No. 2, 269-295 (2010).

The authors analyse an accelerated skew-Hermitian splitting (AHSS) preconditioner for the numerical solution of generalized saddle point systems. They prove that all eigenvalues of the preconditioned matrices are very clustered with any positive iteration parameters.

Reviewer: [Constantin Popa \(Constanța\)](#)

MSC:

[65F10](#) Iterative numerical methods for linear systems

[65F50](#) Computational methods for sparse matrices

[65F08](#) Preconditioners for iterative methods

Cited in **15** Documents

Keywords:

generalized saddle point problem; splitting iteration method; positive stable; preconditioning; accelerated skew-Hermitian splitting

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