SOME MAJORIZATION INEQUALITIES FOR CONEIGENVALUES

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Abstract. A new notion of coneigenvalue was introduced by Ikramov in [Kh.D. Ikramov. On pseudo-eigenvalues and singular numbers of a complex square matrix (in Russian). Zap. Nauchn. Semin. POMI, 334:111–120, 2006.]. This paper presents some majorization inequalities for coneigenvalues, which extend some classical majorization relations for eigenvalues and singular values, and may serve as a basis for further investigations in this area.

Key words. Majorization, Coneigenvalues, Conjugate normal matrices.

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