

## SOME INEQUALITIES FOR SECTOR MATRICES

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*Abstract.* Two new inequalities are proved for sector matrices. The first one complements a recent result in [Oper. Matrices, 8 (2014) 1143–1148]; the second one is an analogue of the AM-GM inequality, where the geometric mean for two sector matrices was introduced in [Linear Multilinear Algebra 63 (2015) 296–301]. As an application of the second inequality, we present similar inequalities for singular values or norms.

*Mathematics subject classification (2010):* 15A45, 15A42, 47A30.

*Keywords and phrases:* Inequality, singular value, unitarily invariant norm, geometric mean.

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