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SOME GENERALIZATIONS AND COMPLEMENTS OF DETERMINANTAL INEQUALITIES

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Abstract. K. Audenaert in [1] formulated a determinantal inequality arising from diffusion tensor imaging. Very recently M. Lin proved in [6] a complement and proposed a conjecture. In this short note, we generalize his conjecture and we prove it in a wild case, when the matrix is singular. We also present a refinement of the complement found by Lin and finally we present a series of determinantal inequalities followed by a conjecture.

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