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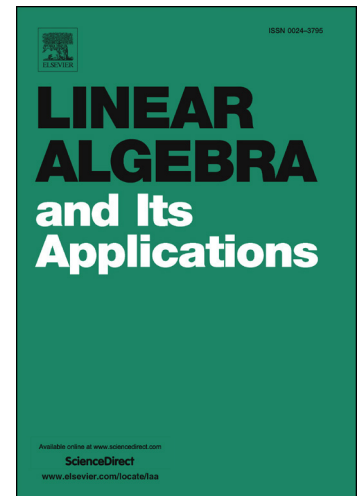
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Product of two diagonal entries of a 3-by-3 normal matrix

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Dedicated to the memory of Professor Takayuki Furuta

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Abstract. The set of product of two diagonal entries of 3-by-3 normal matrices unitarily similar to a diagonal matrix is a triangle if the diagonal entries form an acute-angled triangle inscribed to the unit circle.

AMS classification: 47A12

Keywords: unistochastic matrix, acute-angled triangle, diagonal entries.

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