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## Commuting exponentials in dimension at most 3

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(Submitted on 12 Jul 2011)

Let A,B be two square complex matrices of dimension at most 3. We show that the following conditions are equivalent i) There exists a finite subset U included in  $\{2,3,4,...\}$  such that for every positive integer t that is not in U,  $\exp(tA+B)=\exp(tA)\exp(B)=\exp(B)\exp(tA)$ . ii) The pair (A,B) has property L of Motzkin and Taussky and  $\exp(A+B)=\exp(A)\exp(B)=\exp(B)\exp(A)$ .

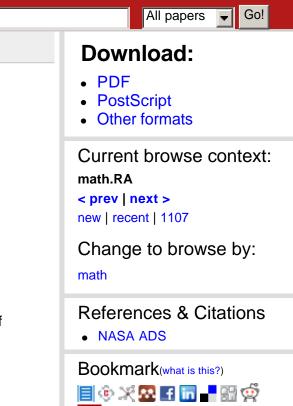
Subjects:Rings and Algebras (math.RA)MSC classes:15A24Cite as:arXiv:1107.2278v1 [math.RA]

## **Submission history**

From: Bourgeois Gerald [view email] [v1] Tue, 12 Jul 2011 13:20:02 GMT (6kb)

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