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## On Chaotic Order of Indefinite Type

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**Abstract:** Let A, B be J-selfadjoint matrices with positive eigenvalues and

 $I \ge^J A, I \ge^J B$ . Then it is proved as an application of Furuta inequality of

indefinite type that

 $\text{Log } A \geq^J \text{Log } B$ 

if and only if

 $A^r \ge^J (A^{\frac{r}{2}} B^p A^{\frac{r}{2}})^{\frac{r}{p+r}}$ 

for all p > 0 and r > 0.

Å □

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