



Math for the people, by the people.

Löwner partial ordering

Canonical name	LownerPartialOrdering
Date of creation	2013-03-22 13:35:03
Last modified on	2013-03-22 13:35:03
Owner	yark (2760)
Last modified by	yark (2760)
Numerical id	9
Author	yark (2760)
Entry type	Definition
Classification	msc 40A30
Related topic	MatrixMonotone

Let A and B be two Hermitian matrices of the same size. If $A - B$ is positive semidefinite we write

$$A \geq B,$$

or

$$B \leq A.$$

Then \geq is a partial ordering, referred to as *Löwner partial ordering*, on the set of Hermitian matrices.