

Inequality for a trace on a unital C^* -algebra

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Abstract

© 2016, Pleiades Publishing, Ltd. A new inequality for a trace on a unital C^* -algebra is established. It is shown that the inequality obtained characterizes the traces in the class of all positive functionals on a unital C^* -algebra. A new criterion for the commutativity of unital C^* -algebras is proved.

<http://dx.doi.org/10.1134/S0001434616030214>

Keywords

positive functional, trace on a C^* -algebra, unital C^* -algebra