

بسمه تعالی



دانشگاه صنعتی اصفهان

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Matrix form of the inverse Young inequalities

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زمان: چهارشنبه ۹۴/۰۸/۲۷ - ساعت ۱۱

Many of the most common inequalities of classic analysis have been extended to more general C^* -algebras. Since the C^* -algebras of matrices with elements from the complex field C or from the quaternion skew field H have applications in physics and mechanics, there is some interest in extending these inequalities for operators acting on these C^* -algebras. The arithmetic-geometric mean inequality and its generalization, the Young inequality are among the most important inequalities satisfied by positive numbers that have generalizations in positive matrices, and in a more general case, in positive compact operators acting on a complex separable Hilbert space. We introduce a new inequality between positive numbers which can be called the inverse Young inequality and then discuss its matrix form. A necessary and sufficient condition for the case of equality in the inverse Young inequality is also part of our talk.