論文の内容の要旨

Noncommutative Maximal Ergodic Inequality For Non-tracial L¹-spaces 非トレース的L¹空間に対する非可換極大 エルゴード不等式 Qin Zhang (張 欽)

We extend the noncommutative L^1 -maximal ergodic inequality for semifinite von Neumann algebras established by Yeadon in 1977 to the framework of noncommutative L^1 -spaces associated with σ – finite von Neumann algebras. Since the semifinite case of this result is one of the two essential parts in the proof of noncommutative maximal ergodic inequality for tracial L^p -spaces (1<p< ∞) by Junge-Xu in 2007, we hope our result will be helpful to establish a complete noncommutative maximal ergodic inequality for non-tracial L^p -spaces in the future.