

Name: Michiya Mori, mmori@ms.u-tokyo.ac.jp

Affiliation: Graduate School of Mathematical Sciences, the University of Tokyo, Japan

Title: Order isomorphisms of von Neumann algebras

Abstract: I will consider the usual order structure of self-adjoint parts of von Neumann algebras. I will explain the general form of order isomorphisms between intervals of von Neumann algebras. In particular, I will explain that every order isomorphism between the positive cones of von Neumann algebras without commutative direct summands extends to a linear mapping.