

1106-46-964

Richard Kadison* (kadison@math.upenn.edu). *Extensions of Pure States. Murray-von Neumann Algebras.*

The lecture will consist of two parts. In the first part, we discuss the problems involving uniqueness of extensions of pure states and the possible physical implications of what I. M. Singer and the speaker proved in their 1959 article and the recent proposed solution to the problem posed in that article. In the second part of the lecture, we discuss, as time allows, further developments involving commutators and derivations in Murray-von Neumann algebras (based on the material presented in the lecture of Zhe Liu). (Received September 09, 2014)