

WORKSHOP 「QUANTUM INFORMATION THEORY AND ITS APPLICATIONS」

Organizer: Hiroyuki Osaka (Ritsumeikan University)

Date: Dec. 13 (Thursday) ~ Dec. 15 (Saturday)

Place : Ritsumeikan Univ. Biwako Kusatsu Campus :

Dec. 13 ~ Dec. 14 : PRISUM HOUSE P109

Dec. 15 : RARCADIA R201

Dec. 13

14:00-15:00 Seung-Hyeok Kye (Seoul National Univ.)

Recent development in the theory of entanglement witnesses

15:30-16:30 Dinh Trung Hoa (Duy Tan Univ.)

Entropy in quantum information theory Part 1

18:00: Welcome Party

Dec. 14

10:00-11:00 Gen Kimura (Shibaura Inst. Tec.)

Information Theory based on General Probabilistic Theories

11:20-12:20 Hiromichi Ohno (Shinshu Univ.)

POVMs on quantum systems I

14:00-15:00 Dinh Trung Hoa (Duy Tan Univ.)

Entropy in quantum information theory Part 2

15:30-16:30 Seung-Hyeok Kye (Seoul National Univ.)

Geometry for separable and PPT states

17:00-18:00 Jun Tomiyama (Tokyo Metropolitan Univ.)

Piling structure of matrix monotone functions and matrix convex functions
as non-commutative calculus

19:00 : Dinner Party

Dec. 15

10:00-11:00 Gen Kimura (Shibaura Inst. Tec.)

The power of Entanglement in General Probabilistic Theories —

On the principle of Information Causality

11:20-12:20 Hiromichi Ohno (Shinshu Univ.)

POVMs on quantum systems II