2016年度　物理学科大輪講　第4回

日時：11月9日（水）14時40分から
場所：南2号館200教室
時間：25分（発表20分、討論5分）

前半（14:40-16:20）

座長：渡邉

1. 11-041-058　（落合研究室）　14:40–15:05

   Intrinsic Switching Characteristics of Ferroelectric Ultrathin Vinylidene Fluoride/Trifluoroethylene Copolymer Films Revealed Using Au Electrode

   Takashi NAKAJIMA, Ryosuke ABE, Yoshiyuki TAKAHASHI and Takeo FURUKAWA

   Japanese Journal of Applied Physics, Vol. 44, No. 45, pp. L 1385 (2005)

2. 12-041-001　（落合研究室）　15:05–15:30

   Performance of Directional Microphones for Hearing Aids: Real-World versus Simulation

   Cynthia L. Compton-Conley, Arlene C. Neuman, Mead C. Killion, Harry Levitt

   J Am Acad Audiol 15:440455 (2004)

3. 13-041-013　（徳川研究室）　15:30–15:55

   AERODYNAMIC DESIGN METHOD FOR SUPERSONIC SLENDER BODY USING AN INVERSE PROBLEM

   Kisa Matsushima, Ikki Yamamichi, Naoko Tokugawa

   ICAS 2014-2.2.3

   (Proceeding of 29th Congress of the International Council of the Aeronautical Sciences)

4. 13-041-027　（徳川研究室）　15:55–16:20

   The DLR Project LamAiR: Design of a NLF Forward Swept Wing for Short and Medium Range Transport Application

   Arne Seitz, Martin Kruse, Tobias Wunderlich, Jens Bold and Lars Heinrich

   AIAA paper 2011-3526 (2011)

後半（16:30–17:55）

座長：宇田川

5. 13-041-026　（平野研究室）　16:30–16:55

   Direct and full-scale experimental verifications towards ground-satellite quantum key distribution

   Jian-Yu Wang, Bin Yang, Sheng-Kai Liao, Liang Zhang, Qi Shen, Xiao-Fang Hu, Jin-Cai Wu, Shi-Ji Yang, Hao Jiang, Yan-Lin Tang, Bo Zhong, Hao Liang, Wei-Yue Liu, Yi-Hua Hu, Yong-Mei Huang, Bo Qi, Ji-Gang Ren, Ge-Sheng Pan, Juan Yin, Jian-Jun Jia, Yu-Ao Chen, Kai Chen, Cheng-Zhi Peng and Jian-Wei Pan

   Nature Photonics, Vol.7, 387 (2013)

6. 13-041-004　（平野研究室）　16:55–17:30

   Quantum key distribution without detector vulnerabilities using optically seeded lasers

   L. C. Comandar, M. Lucamarini, B. Frhlich, J. F. Dynes, A. W. Sharpe, S. W.-B. Tam, Z. L. Yuan, R. V. Penty and A. J. Shields

   Nature Photonics, 10, 312-315 (2016).

7. 12-041-009　（高橋研究室）　17:30–17:55

   Cuprous oxide manometer for high-pressure magnetic resonance experiments

   A. P. Reyes, E. T. Ahrens, R. H. Heffner, P. C. Hammel, and J. D. Thompson

   Rev. Sci. Instrum. 63 3120 (1992)