

2013年度 物理学科大輪講 第6回

日時：11月20日(水)14時40分から

場所：北1号館201教室

時間：25分(発表20分、討論5分)

前半(14:40-15:55)

座長：荒川

1. 10-041-022 (落合研究室) 14:40-15:05
Predicting transmission of shaped sonic booms into a residential house structure
Natalia V. Sizov, Kenneth J. Plotkin, and Christopher M. Hobbs
Acoustical Society of America, vol.127(6), p.3347 (2010)
2. 07-041-007 (落合研究室) 15:05-15:30
Towards an Experimental Benchmark Test Cases Database for the Validation of Numerical Models for Outdoor Sound Propagation
Eric Premat, Jérôme Defrance, Antoine Mos, Hélène Chartier
ACTA ACUSTICA UNITED WITH ACUSTICA ,Vol. 89 (2003) 992-997
3. 10-041-038 (落合研究室) 15:30-15:55
Electrically controlled elasticity utilizing piezoelectric coupling
Masayuki Kutani Shigeru Sakai
Journal of Applied Physics, vol. 87, p. 863 (2000)

後半 (16:05–17:20)

座長：平野

4. 10-041-049 (西坂研究室) 16:05–16:30

Cooperative three-step motions in catalytic subunits of F₁-ATPase correlate with 80° and 40° substep rotations

Tomoko Masaïke, Fumie Koyama-Horibe, Kazuhiro Oiwa, Masasuke Yoshida and Takayuki Nishizaka

Nature Structural And Molecular Biology, **15**, 1326-1333 (2008).

Advanced TIRF microscopy to detect single-molecule conformational changes in both azimuth and axial axis using polarization switching (方向と倒れの構造変化を 1 分子レベルで検出する偏光スイッチングを用いた新しい TIRFM)

Nagisa Mikami, Tomoko Masaïke, Mitsuhiro Sugawa, Takayuki Nishizaka

生物物理, **53**, s31 (2013): Abstract,

The 51st Annual Meeting of the Biophysical Society of Japan

5. 10-041-019 (荒川研究室) 16:30–16:55

Low-energy electron diffraction system using a position-sensitive detector

E.G. McRae, R.G. Malic, and D.A. Kapilow

Rev. Sci. Instrum., **56**, 2077, 1985

6. 10-041-011 (渡邊研究室) 16:55–17:20

Analysis of Surface Tension from Aerodynamic Levitation of Liquids

Francis Millot, Jean Claude Rifflet, Guillaume Wille, Vincent Sarou-Kanian, Benoit Glorieux

Journal of the American Ceramic Society, **85** (2002) 187-192.