

## 2014年度 物理学科大輪講 第5回

日時：11月12日(水)14時40分から

場所：中央棟301教室

時間：25分(発表20分、討論5分)

前半(14:40-16:20)

座長：西坂

1. 11-041-032 (高橋研究室) 14:40-15:05  
Metal-insulator transition of donor-acceptor-type organic charge-transfer complex (BETS)<sub>2</sub>(Br<sub>2</sub>TCNQ): Site-selective NMR measurements  
K. Hiraki, S. Furuta, T. Takahashi, R. Kondo, S. Kagoshima, T. Hasegawa, T. Mochida, and Y. Iwasa  
Physical Review B, vol. 66, p. 035104 (2002)
2. 11-041-029 (高橋研究室) 15:05-15:30  
Superconducting State of the Organic Conductor (TMRSF)<sub>2</sub>ClO<sub>4</sub>  
J.Shinagawa,Y.Kurosaki,F.Zhang,C.Parker,S.E.Brown,D.Jerome,J.B.Chrisensen,K.Bechgaard  
PHYSICAL REVIEW LETTERS, vol. 98, p. 147002 (2007)
3. 11-041-006 (渡邊研究室) 15:30-15:55  
Structure formation in liquid and amorphous metallic alloys  
N.Mattern  
Journal of non-crystalline solids, 353 (2007) 1723-1731
4. 11-041-009 (渡邊研究室) 15:55-16:20  
Screening-Engineered Field-Effect Solar Cells  
William Regan ,Steven Byrnes ,Will Cannett ,Onur Ergen ,Oscar Vazquez-Mena ,Feng Wang ,and Alex Zettl  
Nano Lett., 12(8),pp4300-4304, 2012

後半 ( 16:30–17:20 )

座長：高橋

5. 11-041-020 ( 平野研究室 ) 16:30–16:55  
Quantum Cryptography Using Any Two Nonorthogonal States  
Charles H. Bennett  
Physical Review Letters, vol. 68, p. 3121 (1992)
  
6. 11-041-014 ( 平野研究室 ) 16:55–17:20  
Practical Limitation for Continuous-Variable Quantum Cryptography using Coherent States  
Ryo Namiki and Takuya Hirano  
Phys. Rev. Lett. 92, 117901 (2004).
  
7. 11-041-018 ( 荒川研究室 ) 17:20–17:45  
Trapping of molecular hydrogen at surfaces via translational-rotational energy conversion  
S. Andersson and J. Harris  
Phys. Rev. B, **27**, 9 (1983)