

## 2016年度 物理学科大輪講 第5回

日時：11月16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：井田

1. 13-041-034 (渡邊研究室) 14:40-15:05  
Solution plasma exfoliation of graphene flakes from graphite electrodes  
Hoonseung Lee, Maria Antoaneta Bratescu, Tomonaga Ueno and Nagahiro Saito  
RSC Advances, Issue 93, 51758, 2014
2. 12-041-020 (高橋研究室) 15:05-15:30  
Interplay between chains of  $S=5/2$  localised spins and two-dimensional sheets of organic donors in the synthetically built magnetic multilayer  $\lambda - (\text{BETS})_2\text{FeCl}_4$   
L. Brossard, R. Clerac, C. Coulon, M. Tokumoto, T. Ziman, D. K. Petrov, V. N. Laukhin, M. J. Naughton, A. Audouard, F. Goze, A. Kobayashi, H. Kobayashi, and P. Cassoux  
Eur. Phys. J., B1, 439-452(1998)
3. 13-041-066 (西坂研究室) 15:30-15:55  
Detection of fractional steps in cargo movement by the collective operation of kinesin-1 motors  
Cecile Leduc, Felix Ruhnnow, Jonathon Howard, Stefan Diez  
PNAS, vol.104, p.10847 (2007)
4. 12-041-015 (西坂研究室) 15:55-16:20  
High-frequency Vibration in Flagellar Axonemes with Amplitudes Reflecting the Size of Tubulin  
Shinji Kamimura and Ritsu Kamiya  
The Journal of Cell Biology, Volume 116, p. 1443 (1992)

後半 ( 16:30-17:45 )

座長：西坂

5. 13-041-010 ( 平野研究室 ) 16:30-16:55

Experimental quantum key distribution without monitoring signal disturbance

Hiroki Takesue, Toshihiko Sasaki, Kiyoshi Tamaki, Masato Koashi

Nature Photonics, VOL 9,p.827 (2015)

6. 13-041-037 ( 理論研究室 ) 16:55-17:20

Inflationary universe : A possible solution to the horizon and flatness problems

Alan H.Guth

Physical Review D, Volume 23 , Number 2 ,15 January 1981 ,p347-350

7. 13-041-049 ( 荒川研究室 ) 17:20-17:45

Vibrational spectra of nitric oxide chemisorbed on Pt(100)

G. Pirug, H. P. Bonzel, H. Hopster, and H. Ibach

J. Chem. Phys. 71(1979)2.