

## 2015年度 物理学科大輪講 第6回

日時：11月25日(水)13時30分から

場所：南3号館301教室

時間：25分(発表20分、討論5分)

前半(13:30-15:10)

座長：渡邊

1. 11-041-021 (理論研究室) 13:30-13:55  
Rigorous Results and Theorems  
R. B. Griffiths  
Phase Transitions and Critical Phenomena vol.1 (Academic Press, 1972)
2. 11-041-022 (理論研究室) 13:55-14:20  
Precise Measurements of Dendrite Growth of Ice Crystals in Microgravity  
Izumi Yoshizaki, Takehiko Ishikawa, Satoshi Adachi, Etsuro Yokoyama, and Yoshinori Furukawa  
Microgravity Science and Technology, Volume.24, p.245 (2012)
3. 11-041-016 (高橋研究室) 14:20-14:45  
VANISHING KNIGHT SHIFT IN SUPERCONDUCTING ALUMINUM  
R. H. Hammond and G. M. Kelly  
PHYSICAL REVIEW LETTERS, Vol. 18, NUMBER 5,(1967) p.156
4. 10-041-025 (高橋研究室) 14:45-15:10  
INTRODUCTION TO MAGNETIC RESONANCE  
Alan Carrington, Andrew D.McLachlan  
11.5 NUCLEAR SPI RELAXATION IN THE WATER MOLECULE p.183

後半 ( 15:20-17:00 )

座長：宇田川

5. 12-041-019 ( 西坂研究室 ) 15:20-15:45  
Sudden motility reversal indicates sensing of magnetic field gradients in *Magnetospirillum magneticum* AMB-1 strain  
Lina M Gonzalez, Warren C Ruder, Aaron P Mitchell, William C Messner and Philip R LeDuc  
The ISME Journal (2015) 9, 1399-1409
  
6. 12-041-025 ( 西坂研究室 ) 15:45-16:10  
Phosphate release in  $F_1$ -ATPase catalytic cycle follows ADP release  
Rikiya Watanabe, Ryota Iino & Hiroyuki Noji  
Nature Chemical Biology 6, 814-820 (2010)
  
7. 12-041-035 ( 渡邊研究室 ) 16:10-16:35  
Estimation Models for Molten Slag and Alloy Viscosities  
S.Sridhar  
Journal of The Minerals, Metals & Materials Society, Vol.54, Issue 11, p.46 (2002)
  
8. 12-041-060 ( 渡邊研究室 ) 16:35-17:00  
Triplon Modes of Puddles  
X. Noblin, A. Buguin, and F. Brochard-Wyart  
PHYSICAL REVIEW LETTERS 94, 166102 (2005)