

2014年度 物理学科大輪講 第6回

日時：11月19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：田崎

1. 10-041-002 (高橋研究室) 14:40-15:05

Mysterious Paramagnetic States of Fe 3d Spin in Antiferromagnetic Insulator of λ -BETS₂FeCl₄ System

Hiroshi AKIBA, Shinto NAKANO, Yutaka NISHIO, Koji KAJITA, Biao ZHOU, Akiko KOBAYASHI, and Hayao KOBAYASHI

Journal of the Physical Society of Japan, Vol. 78, p. 033601 (2009)

2. 10-041-018 (高橋研究室) 15:05-15:30

Antiferromagnetic Ordering in Quasi-Triangular Localized Spin System, β' - Et₂Me₂P[Pd(dmit)₂]₂, Studied by ¹³C NMR

K. Otsuka, H. Iikubo, T. Kogure, Y. Takano, K. Hiraki, T. Takahashi, H. Cui, and R. Kato

J. Phys. Soc. Jpn, vol. 83, p. 054712 (2014)

3. 11-041-050 (理論研究室) 15:30-15:55

Ground-State Properties of Magnetically Trapped Bose-Condensed Rubidium Gas

Gordon Baym and C.J.Pethick

Physical Review Letters, vol. 76, p. 6 (1996)

4. 11-041-063 (西坂研究室) 15:55-16:20

Large-scale vortex lattice emerging from collectively moving microtubule

Yutaka Sumino, Ken H. Nagai, Yuji Shitaka, Dan Tanaka, Kenichi Yoshikawa, Hugues Chate & Kazuhiro Oiwa

Nature 483, 448-452 (22 March 2012)

後半 (16:30-17:45)

座長：平野

5. 11-041-023 (渡邊研究室) 16:30-16:55
Measurement of dynamic surface tension by the oscillating droplet method
B. Stückerad, W.J.Hiller T.A.Kowalewski
Experiments in Fluids 15, 332-340 (1993)

6. 11-041-035 (渡邊研究室) 16:55-17:20
Detailed Balance Limit of Efficiency of pn Junction Solar Cells
William Shockley and Hans J. Queisser
Journal of Applied Physics 32,510 (1961)

7. 11-041-019 (西坂研究室) 17:20-17:45
Flagella stator homologs function as motors for myxobacterial gliding motility by moving in helical trajectories
Beiyan Nana, Jigar N. Bandariaa, Amirpasha Moghtaderia, Im-Hong Suna, Ahmet Yildiza, David R. Zusmana
PNAS vol.110 E1508(2013)