

2015年度 物理学科大輪講 第3回

日時：10月28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. 12-041-039 (理論研究室) 13:30-13:55

Integration of Ordinary Differential Equations

William H.Press,Saul A.Teukolsky,William T.Vetterling,Brian P.Flannery

Numerical Recipes in C,(Software,1988-2002)Chapter16,p.707

2. 12-041-057 (理論研究室) 13:55-14:20

SUPERCONDUCTIVITY OF METALS AND ALLOYS

Chapter4 Description of the condensed state

Chapter5 The self-consistent field method

P.G.De Gennes

W.A.BENJAMIN,INC.NEW YORK AMSTELDAM(1966) Chapter4 p.93 and Chapter5 p.137

3. 12-041-070 (平野研究室) 14:20-14:45

Air-to-ground quantum communication

Sebastian Nauerth, Florian Moll, Markus Rau, Christian Fuchs, Joachim Horwath, Stefan Frick and Harald Weinfuter

Nature Photonics, vol.7, 382-386 (2013)

4. 12-041-013 (平野研究室) 14:45-15:10

Practical quantum key distribution protocol without monitoring signal disturbance

Toshihiko Sasaki, Yoshihisa Yamamoto & Masato Koashi

Nature, vol.509, p.475, (2014)

後半 (15:20-17:00)

座長：井田

5. 12-041-031 (高橋研究室) 15:20-15:45

Magnetic Interaction of Nuclei with Electrons

C.P.Slichter

Principles of Magnetic Resonance, Springer-Verlag, P.87 ~ 104

6. 12-041-040 (高橋研究室) 15:45-16:10

Magnetic and Thermal Properties of λ -(BETS)₂FeCl₄ System

Hiroshi Akiba,Kento Nobori,Kazuo Shimada,Yutaka Nishio,Koji Kajita,Biao Zhou,Akiko Kobayashi, and Hayao Kobayashi

Journal of the physical Society of Japan 80(2011)063601

7. 12-041-029 (渡邊研究室) 16:10-16:35

Volume Expansion Measurements in Metallic Liquids and Their Relation to Fragility and Glass Forming Ability: An Energy Landscape Interpretation

J.C.Bendert, A.K.Gangopadhyay, N.A.Mauro, and K.F.Kelton

PHYSICAL REVIEW LETTERS, vol.109, p.185901 (2012)

8. 12-041-056 (渡邊研究室) 16:35-17:00

Discovery of a metastable Al₂₀Sm₄ phase

Z.Ye,F.Zhang,M.I.Mendelev,R.T.Ott,E.Park,M.F.Besser,

M.J.Kramer,Z.Ding,C.-Z.Wang,K.-M.Ho

Applied Physics Letters, 106, 101903 (2015)