

PHYSICS– USPEKHI

English edition of *Uspekhi Fizicheskikh Nauk*
 June 2006 Volume 176 Number 6

Contents

Volume 49
Number 6
2006
Pages 551–666

REVIEWS OF TOPICAL PROBLEMS	
The Nambu–Jona-Lasinio model and its development M K Volkov, A E Radzhabov	551
The nature, kinetics, and ultimate storage capacity of hydrogen sorption by carbon nanostructures Yu S Nechaev	563
Ordering, phase separation, and phase transformations in Fe-<i>M</i> alloys Yu I Ustinovshchikov, B E Pushkarev	593
Let there be white light: supercontinuum generation by ultrashort laser pulses A M Zheltikov	605
CONFERENCES AND SYMPOSIA	
Scientific session of the Physical Sciences Division of the Russian Academy of Sciences dedicated to the 60th anniversary of the Zavoisky Kazan Physical-Technical Institute of the Kazan Scientific Center, Russian Academy of Sciences (9 February 2006):	629
Bose condensation of interwell excitons and spatial structure of luminescence in lateral traps A V Gorbunov, V B Timofeev	629
The unique femtosecond spectrometric complex as an instrument for ultrafast spectroscopy, femtochemistry, and nanooptics S V Chekalin	634

Continued overleaf

Contents continued

Time-resolved EPR spectroscopy of nonequilibrium spin systems produced during spin-dependent photophysical and photochemical processes in condensed media	641
K M Salikhov	
The role of electron paramagnetic resonance in the development of quantum electronics: facts and comments	645
A A Manenkov	
Magnetic resonance modes in spin-gap magnets	649
A I Smirnov	
The superconductor/ferromagnet proximity effect and its potential application in spintronics	652
I A Garifullin	
 PERSONALIA	
In memory of Igor' Il'ich Sobel'man	657
T L Andreeva, I L Beigman, L A Vainshtein, V L Ginzburg, I A Zhitnik, O N Krokhin, V S Lebedev, M A Mazing, A V Masalov, G A Mesyats, S G Rautian, V N Sorokin	
In memory of Evgenii L'vovich Feinberg	659
I V Andreev, V L Ginzburg, A V Gurevich, I M Dremin, N S Kardashev, L V Keldysh, O N Krokhin, G A Mesyats, Yu S Osipov, V I Ritus, I I Roizen, V Ya Fainberg	
 BIBLIOGRAPHY	
New books on physics and related sciences	661
E V Zakharova	
Physics news on the Internet	665
Yu N Eroshenko	