

PHYSICS– USPEKHI

English edition of *Uspekhi Fizicheskikh Nauk*
February 2009 Volume 179 Number 2

Contents

Volume 52 Number 2 2009 Pages 105 – 208	REVIEWS OF TOPICAL PROBLEMS	
	The femtosecond dynamics of electrons in metals	105
	V P Zhukov, E V Chulkov	
	Phase transitions in various kinds of clusters	137
	R S Berry, B M Smirnov	
	INSTRUMENTS AND METHODS OF INVESTIGATION	
	Physical mechanisms underlying the selective removal of atoms	165
	B A Gurovich, K E Prikhod'ko	
	METHODOLOGICAL NOTES	
	On electromagnetically induced transparency in the degenerate Λ-scheme	179
V S Zapasskii		
CONFERENCES AND SYMPOSIA		
Commemoration of the centenary of the birth of Academician V A Kotel'nikov	183	
(Joint scientific session of the Physical Sciences Division of the Russian Academy of Sciences and the Division of Nanotechnologies and Information Technologies of the Russian Academy of Sciences, 17 September 2008)		
Yu V Gulyaev, V A Kotel'nikov; L M Zelenyi, N A Armand; N A Kuznetsov, I N Sinitsyn; V I Kaevitser, V M Razmanov		

Continued overleaf

Contents continued

Creative career of Vladimir Aleksandrovich Kotel'nikov (opening address) Yu V Gulyaev	183
Model Nonrelativistic Quantum Mechanics. Considerations V A Kotel'nikov	185
Vladimir Aleksandrovich Kotel'nikov and Solar System studies L M Zelenyi, N A Armand	190
Development of Kotel'nikov's sampling theorem N A Kuznetsov, I N Sinitsyn	197
Remote sensing of sea bottom by hydroacoustic systems with complex signals V I Kaevitser, V M Razmanov	199
Physics news on the Internet Yu N Eroshenko	207