Reviews of Modern Physics

CONTENTS FOR VOLUME 77

JANUARY 2005

	Author guidelines	
1	**CODATA recommended values of the fundamental physical constants: 2002**	Peter J. Mohr, Barry N. Taylor
109	**Andreev–Saint-James reflections: A probe of cuprate superconductors**	Guy Deutscher
137	**The Kuramoto model: A simple paradigm for synchronization phenomena**	Juan A. Acebrón, L. L. Bonilla, Conrad J. Pérez Vicente, Félix Ritort, Renato Spigler
187	***Colloquium*: Bulk Bogoliubov excitations in a Bose-Einstein condensate**	R. Ozeri, N. Katz, J. Steinhauer, N. Davidson
207	**Tracing cosmic evolution with clusters of galaxies**	G. Mark Voit
259	**The density-matrix renormalization group**	U. Schollwöck
317	**The surface of helium crystals**	Sébastien Balibar, Harry Alles, Alexander Ya. Parshin
371	**Structural properties of nanoclusters: Energetic, thermodynamic, and kinetic effects**	Francesca Baletto, Riccardo Ferrando
425	**Forthcoming articles**	

APRIL 2005

427	**The shell model as a unified view of nuclear structure**	E. Caurier, G. Martínez-Pinedo, F. Nowacki, A. Poves, A. P. Zuker
489	***Colloquium*: Reactive plasmas as a versatile nanofabrication tool**	K. Ostrikov
513	**Quantum information with continuous variables**	Samuel L. Braunstein, Peter van Loock
579	**How generic scale invariance influences quantum and classical phase transitions**	D. Belitz, T. R. Kirkpatrick, Thomas Vojta
633	**Electromagnetically induced transparency: Optics in coherent media**	Michael Fleischhauer, Atac Imamoglu, Jonathan P. Marangos
675	**Chern-Simons theory and topological strings**	Marcos Mariño
721	**Electrodynamics of high-T_c superconductors**	D. N. Basov, T. Timusk
781	**Forthcoming articles**	

JULY 2005

783	**Feedback for physicists: A tutorial essay on control**	John Bechhoefer

837	**Nobel Lecture: The discovery of asymptotic freedom and the emergence of QCD**	David J. Gross
851	**Nobel Lecture: The dilemma of attribution**	David Politzer
857	**Nobel Lecture: Asymptotic freedom: From paradox to paradigm**	Frank Wilczek
871	***Colloquium*: Photons and electrons as emergent phenomena**	Michael Levin, Xiao-Gang Wen
881	**Microscopic dynamics in liquid metals: The experimental point of view**	Tullio Scopigno, Giancarlo Ruocco, Francesco Sette
935	**Proximity effects in superconductor-ferromagnet heterostructures**	A. I. Buzdin
977	**Microfluidics: Fluid physics at the nanoliter scale**	Todd M. Squires, Stephen R. Quake
1027	**Quantum cluster theories**	Thomas Maier, Mark Jarrell, Thomas Pruschke, Matthias H. Hettler
1081	**Forthcoming articles**	

OCTOBER 2005

1083	**Physics of thin-film ferroelectric oxides**	M. Dawber, K. M. Rabe, J. F. Scott
1131	**The interaction of relativistic particles with strong crystalline fields**	Ulrik I. Uggerhøj
1173	**Isotope effects on the optical spectra of semiconductors**	Manuel Cardona, M. L. W. Thewalt
1225	**Quantum cloning**	Valerio Scarani, Sofyan Iblisdir, Nicolas Gisin, Antonio Acín
1257	**The spin structure of the proton**	Steven D. Bass
1303	***Colloquium*: Physically based fluid modeling of collisionally dominated low-temperature plasmas**	R. E. Robson, R. D. White, Z. Lj. Petrović
1321	**Odd triplet superconductivity and related phenomena in superconductor-ferromagnet structures**	F. S. Bergeret, A. F. Volkov, K. B. Efetov
1375	**Nonlocal magnetization dynamics in ferromagnetic heterostructures**	Yaroslav Tserkovnyak, Arne Brataas, Gerrit E. W. Bauer, Bertrand I. Halperin
1423	**Effective-field theories for heavy quarkonium**	Nora Brambilla, Antonio Pineda, Joan Soto, Antonio Vairo
1497	**Forthcoming articles**	
1499	**Volume table of contents**	
1501	**Summary of the PACS scheme—2003**	
1505	**Subject index to volumes 73–77, 2001–2005**	
1519	**Author index to volumes 73—77, 2001—2005**	
	Cumulative listing of reprints	