CONTENTS - *Continued*

PHYSICAL REVIEW B THIRD SERIES, VOLUME 59, NUMBER 22 1 JUNE 1999-II

Effects of the nuclear transformation ^{111}Ag(I) to ^{111}Cd(II) in a single crystal of Ag[^{111}Ag] (imidazole)$_2$NO$_3$ 14 182
Bjarne Hansen, Jens T. Bukrinsky, Lars Hemmingsen, Morten J. Bjerrum, Kulwant Singh, and Rogert Bauer

Small-angle x-ray-scattering study of silver-nanocrystal disorder-order phase transitions 14 191
Brian A. Korgel and Donald Fitzmaurice

Defect structure of yttria-stabilized zirconia and its influence on the ionic conductivity at elevated temperatures ... 14 202
J. P. Goff, W. Hayes, S. Hull, M. T. Hutchings, and K. N. Clausen

Calculation of theoretical strengths and bulk moduli of bcc metals 14 220
Y. Song, R. Yang, D. Li, W. T. Wu, and Z. X. Guo

Nonuniform displacements in dilute alloys of Al and Cu 14 226
P. Singh and S. Prakash

Revised structural phase transitions in the archetype KMnF$_3$ perovskite crystal 14 235
Joanna Kapusta, Philippe Daniel, and Alicja Ratuszna

Ferroelastic transition triggered by an ordering mechanism in [(CH$_3$)$_4$N]SCN 14 246
M. Bonin, A. Fuith, K. J. Schenk, and P. Tolédano

Observation of optically stimulated reorientation of dipolar defects in Pr^{3+}-doped strontium fluoride 14 253
Forrest Charnock, G. Eric Matthews , Jr., Brian Pieslak, and R. T. Williams

Studies of periodic ferroelectric domains in KTiOPO$_4$ using high-resolution x-ray scattering and diffraction imaging 14 259
Z. W. Hu, P. A. Thomas, and W. P. Risk

Thermodynamic study of commensurate-incommensurate phase transitions in Rb$_2$ZnCl$_4$ 14 265
José-María Martín-Olalla, Saturio Ramos, and Arkadi Levanyuk

Inhomogeneous, disordered, and partially ordered systems

Embedded-atom-method study of structural, thermodynamic, and atomic-transport properties of liquid Ni-Al alloys 14 271
Mark Asta, Dane Morgan, J. J. Hoyt, Babak Sadigh, J. D. Althoff, D. de Fontaine, and S. M. Foiles

Positron diffusion in solid and liquid metals 14 282
E. Gramsch, K. G. Lynn, J. Throwe, and I. Kanazawa

Coherency of phason dynamics in Fibonacci chains 14 302
G. G. Naumis, Chumin Wang, M. F. Thorpe, and R. A. Barrio

Physical analysis of the state- and rate-dependent friction law: Static friction 14 313
P. Berthoud, T. Baumberger, C. G'Sell, and J.-M. Hiver

Persistent spectral hole burning in deuterated CaF$_2$:Tm^{3+} 14 328
N. M. Strickland, R. L. Cone, and R. M. Macfarlane

Ultrafast photogeneration mechanisms of triplet states in *para*-hexaphenyl 14 336
C. Zenz, G. Cerullo, G. Lanzani, W. Graupner, F. Meghdadi, G. Leising, and S. De Silvestri

Dynamics, dynamical systems, lattice effects, quantum solids, etc.

Remote Wigner polaron in a magnetic field 14 342
H. Kato and F. M. Peeters

Anomalous percolation transition in carbon-black–epoxy composite materials 14 349
L. Flandin, T. Prasse, R. Schueler, K. Schulte, W. Bauhofer, and J.-Y. Cavaille

Microscopic spin-phonon coupling constants in CuGeO$_3$ 14 356
Ralph Werner, Claudius Gros, and Markus Braden