

PHYSICS– USPEKHI

English edition of *Uspekhi Fizicheskikh Nauk*
March 2006 Volume 176 Number 3

Contents

| | | |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Volume 49 Number 3 2006 Pages 225 – 332 | REVIEWS OF TOPICAL PROBLEMS | |
| | Phase transitions in two-dimensional systems with continuous degeneracy S E Korshunov | 225 |
| | PHYSICS OF OUR DAYS | |
| | Quantum chromodynamics and phenomenology of strong interactions I M Dremin, A B Kaidalov | 263 |
| | METHODOLOGICAL NOTES | |
| | Near-electrode and transient processes in liquid dielectrics A I Zhakin | 275 |
| | FROM THE HISTORY OF PHYSICS | |
| | The Joint Institute for Nuclear Research — the first half-century V G Kadyshevsky, A N Sissakian | 297 |
| | CONFERENCES AND SYMPOSIA | |
| | Joint scientific session of the Physical Sciences Division of the Russian Academy of Sciences and the Joint Physical Society of the Russian Federation (30 November 2005): | 305 |
| | Heliophysics: from observations to models V D Kuznetsov | 305 |

Continued overleaf

Contents continued

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Problems of solar activity physics V V Zaitsev, A V Stepanov | 311 |
| Annihilation emission from the galactic center: the INTEGRAL observatory results E M Churazov, R A Sunyaev, S Yu Sazonov, M G Revnivitsev, D A Varshalovich | 319 |
| Ultraluminous X-ray sources in galaxies — microquasars or intermediate mass black holes S N Fabrika, P K Abolmasov, S V Karpov, O N Sholukhova, K K Ghosh | 324 |
| Physics news on the Internet Yu N Eroshenko | 331 |