

# Low Temperature Physics/Физика низких температур

Том 39, № 3, 2013

Специальный выпуск

Март 2013

## К 75-летию со дня рождения И.К. Янсона

Ответственный за выпуск Ю.Г. Найдюк

## Содержание

Вступление .....	247
<i>Tartaglini E., Verhagen T.G.A., Galli F., Trouwborst M.L., Müller R., Shiota T., Aarts J., and van Ruitenbeek J.M.</i> New directions in point-contact spectroscopy based on scanning tunneling microscopy techniques (Review Article).	249
<i>Daghero D., Tortello M., Pecchio P., Stepanov V.A., and Gonnelli R.S.</i> Point-contact Andreev-reflection spectroscopy in anisotropic superconductors: the importance of directionality (Review Article) .....	261
<i>Krivoruchko V.N., D'yachenko A.I., and Tarenkov V.Yu.</i> Point-contact Andreev-reflection spectroscopy of doped manganites: Charge carrier spin-polarization and proximity effects (Review Article) .....	276
<i>Beyer R. and Wosnitza J.</i> Emerging evidence for FFLO states in layered organic superconductors (Review Article) .....	293
<i>Gabovich A.M. and Voitenko A.I.</i> Charge density waves in <i>d</i> -wave superconductors: thermodynamics and Josephson tunneling (Review Article) .....	301
<i>Wang C., Seinige H., and Tsoi M.</i> Ferromagnetic resonance driven by an ac current: a brief review .....	320
<i>Gloos Kurt and Tuuli Elina</i> Andreev-reflection spectroscopy with superconducting indium — a case study .....	326
<i>Scheer E., Böhler T., Edtbauer A., Egle S., Erbe A., and Pietsch T.</i> Switchable zero-bias anomaly in individual C <sub>60</sub> molecules contacted with tunable aluminum electrodes .....	335
<i>Ekino T., Sugimoto A., and Gabovich A.M.</i> Scanning-tunneling microscopy/spectroscopy and break-junction tunneling spectroscopy of FeSe <sub>1-x</sub> Te <sub>x</sub> .....	343
<i>Bouvron S., Stokmaier M., Marz M., and Goll G.</i> Andreev experiments on superconductor/ferromagnet point contacts .....	354
<i>Yanson I.K., Balkashin O.P., Fisun V.V., Yanson Yu.I., and Naidyuk Yu.G.</i> Current-field diagram of magnetic states of a surface spin valve in a point contact with a single ferromagnetic film .....	360
<i>Шкляревский О.И., Янсон И.К.</i> Влияние холодной обработки металла на проводимость наноконтактов платины, меди и серебра .....	367
<i>Allen James and Zagorskin A.M.</i> Wigner function description of a qubit-oscillator system .....	372
<i>Massarotti D., Longobardi L., Galletti L., Stornaiuolo D., Rotoli G., and Tafuri F.</i> Macroscopic quantum tunneling and retrapping processes in moderately damped YBaCuO Josephson junctions .....	378
<i>Khotkevych N.V., Kolesnichenko Yu.A., and van Ruitenbeek J.M.</i> Electron tunneling into surface states through an inhomogeneous barrier: asymptotically exact solution of the problem and STM theory .....	384
<i>Yanson Yu.I. and Yanson A.I.</i> Cathodic corrosion: Part 1. Mechanism of corrosion via formation of metal anions in aqueous medium .....	390
<i>Yanson A.I. and Yanson Yu.I.</i> Cathodic corrosion: Part 2. Properties of nanoparticles synthesized by cathodic corrosion .....	399

# Low Temperature Physics/Fizika Nizkikh Temperatur

Volume 39, No. 3, 2013

Special Issue

March, 2013

## To the 75th birthday anniversary of I.K. Yanson

Guest Editor Yu.G. Naidyuk

## Contents

Preface .....	247
<i>Tartaglini E., Verhagen T.G.A., Galli F., Trouwborst M.L., Müller R., Shiota T., Aarts J., and van Ruitenbeek J.M.</i> New directions in point-contact spectroscopy based on scanning tunneling microscopy techniques (Review Article).	249
<i>Daghero D., Tortello M., Pecchio P., Stepanov V.A., and Gonnelli R.S.</i> Point-contact Andreev-reflection spectroscopy in anisotropic superconductors: the importance of directionality (Review Article) .....	261
<i>Krivoruchko V.N., D'yachenko A.I., and Tarenkov V.Yu.</i> Point-contact Andreev-reflection spectroscopy of doped manganites: Charge carrier spin-polarization and proximity effects (Review Article) .....	276
<i>Beyer R. and Wosnitza J.</i> Emerging evidence for FFLO states in layered organic superconductors (Review Article) .....	293
<i>Gabovich A.M. and Voitenko A.I.</i> Charge density waves in <i>d</i> -wave superconductors: thermodynamics and Josephson tunneling (Review Article) .....	301
<i>Wang C., Seinige H., and Tsoi M.</i> Ferromagnetic resonance driven by an ac current: a brief review .....	320
<i>Gloos Kurt and Tuuli Elina</i> Andreev-reflection spectroscopy with superconducting indium — a case study .....	326
<i>Scheer E., Böhler T., Edtbauer A., Egle S., Erbe A., and Pietsch T.</i> Switchable zero-bias anomaly in individual C <sub>60</sub> molecules contacted with tunable aluminum electrodes .....	335
<i>Ekino T., Sugimoto A., and Gabovich A.M.</i> Scanning-tunneling microscopy/spectroscopy and break-junction tunneling spectroscopy of FeSe <sub>1-x</sub> Tex .....	343
<i>Bouvron S., Stokmaier M., Marz M., and Goll G.</i> Andreev experiments on superconductor/ferromagnet point contacts .....	354
<i>Yanson I.K., Balkashin O.P., Fisun V.V., Yanson Yu.I., and Naidyuk Yu.G.</i> Current-field diagram of magnetic states of a surface spin valve in a point contact with a single ferromagnetic film .....	360
<i>Shklyarevskii O.I. and Yanson I.K.</i> Influence of work hardening on conductance of platinum, copper and silver nanocontacts .....	367
<i>Allen James and Zagorskin A.M.</i> Wigner function description of a qubit-oscillator system .....	372
<i>Massarotti D., Longobardi L., Galletti L., Stornaiuolo D., Rotoli G., and Tafuri F.</i> Macroscopic quantum tunneling and retrapping processes in moderately damped YBaCuO Josephson junctions .....	378
<i>Khotkeych N.V., Kolesnichenko Yu.A., and van Ruitenbeek J.M.</i> Electron tunneling into surface states through an inhomogeneous barrier: asymptotically exact solution of the problem and STM theory .....	384
<i>Yanson Yu.I. and Yanson A.I.</i> Cathodic corrosion: Part 1. Mechanism of corrosion via formation of metal anions in aqueous medium .....	390
<i>Yanson A.I. and Yanson Yu.I.</i> Cathodic corrosion: Part 2. Properties of nanoparticles synthesized by cathodic corrosion .....	399