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RESEARCH INTERESTS Theoretical astrophysics and cosmology
Formation of galaxies and star clusters
Cooling of neutron stars
Dark matter detection
Supercomputer simulations

PUBLICATIONS 56 papers in refereed journals (21 as first author, 19 as second or third author)
20+ papers in conference proceedings
Over 2400 citations in the ADS database (over 1400 citations since 2006)

EDUCATION PRINCETON UNIVERSITY, Princeton, NJ 1994–1998
Ph.D. in Astrophysics, Jan 1999 (advisor: J. P. Ostriker)
M.A. in Astrophysics, Nov 1995
ST PETERSBURG STATE TECHNICAL UNIVERSITY, Russia 1989–1994
B.S., M.S. in Astrophysics, June 1994
GPA 4.0/4.0, *Diploma with Excellence*

POSITIONS UNIVERSITY OF MICHIGAN, Ann Arbor, MI 2006–Present
Assistant Professor
OHIO STATE UNIVERSITY, Columbus, OH 2004–2006
Research Associate
SPACE TELESCOPE SCIENCE INSTITUTE, Baltimore, MD 2001–2004
Institute Fellowship
INSTITUTE OF ASTRONOMY, Cambridge, England 1998–2001
Theory Postdoctoral Fellowship

TEACHING Extragalactic Universe (UM AST534, graduate) 2007, 2009
From the Big Bang to the Milky Way (UM AST142, undergraduate) 2008
Computational Astrophysics (UM AST406, undergraduate) 2008
Stars, Galaxies, and the Universe (UM AST102, undergraduate) 2007
Senior Seminar (UM AST429, undergraduate) 2007

MENTORING *Current postdoc:* Marcel Zemp
Current graduate student: Alexander Muratov
PhD thesis committees: Jun Ji, Jana Grcevich, Joel Lamb (all UM Astronomy),
Phillip Grajek, Daniel Phalen (all UM Physics)
Prior Michigan undergraduate students: Lance Jones, Andrew Teller, Daniel Byrd
Prior student supervision and collaborations: Chris Orban (PhD, Ohio State), Jose Prieto
(PhD, Ohio State), James Pizagno (PhD, Ohio State), Tobias Goerdt (PhD, Zurich), Owen
Embury (BA, Cambridge), Ed Threlfall (BA, Cambridge)

SPONSORED RESEARCH SUPPORT	NSF Astrophysics grant NASA HST grants UM Center for Theoretical Physics grants UM Office of the Vice President for Research grants UM Rackham Faculty Research grant AAS small research grant, travel grants	2007 2007, 2009 2007, 2008 2007, 2008 2009 2006
PROFESSIONAL MEMBERSHIP	American Astronomical Society (AAS) Michigan Center for Theoretical Physics Corpus Christi College, Cambridge	
PROFESSIONAL SERVICE	Regular referee (since 1999) for Astrophysical Journal, Astronomical Journal, Physical Review, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Russian Astronomical Journal, Russian Journal of Experimental and Theoretical Physics, Revista Mexicana de Astronomia y Astrofisica NASA Astrophysics Theory Program proposal reviews, 2004, 2006 Hubble Space Telescope proposal review, 2008 UK Particle Physics and Astronomy Research Council proposal review, 2005 UM Magellan/MDM Time Allocation Committee, 2008 Swiss National Science Foundation proposal review, 2008 US-Israel Binational Science Foundation proposal review, 2009 Department of Energy, Office of Science program review, 2009 Conference organization: <i>The Globular Clusters - Dwarf Galaxies Connection</i> , Ann Arbor, Aug 2007	
UNIVERSITY SERVICE	Chair, Preliminary Examination Committee Preliminary Examination Committee Undergraduate Curriculum Committee Extragalactic Graduate Curriculum Committee Graduate Admission Committee Astronomy Colloquium Organizer	2008-2009 2006-2009 2008-2009 2007-2008 2007-2008 2007-2008
OUTREACH	Saturday Morning Physics public lecture, Apr 2009	
INVITED CONFERENCE TALKS	<i>Understanding the Dark Sector: Dark Matter and Dark Energy</i> , Aspen, Jan 2009 <i>Formation and Evolution of Globular Clusters</i> , Santa Barbara, Jan 2009 <i>Novicosmo 2008</i> , Trieste, Oct 2008 <i>Back to the Galaxy II</i> , Santa Barbara, Sep 2008 <i>Chemical Evolution of Dwarf Galaxies</i> , Garching, Jul 2008 <i>Evolution of Galaxies through the HI Window</i> , Arecibo, Feb 2008 <i>Dynamical Evolution of Dense Stellar Systems</i> , Capri, Sep 2007 <i>Dynamics of Galaxies</i> , St Petersburg, Aug 2007 <i>Disk Galaxies and Lost Baryons</i> , Cardiff, Jun 2007 <i>Astrophysical Probes of the Nature of Dark Matter</i> , UC Irvine, Mar 2007 <i>Clusters of Galaxies as Cosmological Probes</i> , Aspen, Feb 2007 <i>High Energy Astrophysics</i> , Moscow, Dec 2006 <i>Applications Of Gravitational Lensing</i> , Santa Barbara, Oct 2006	

Galaxy Evolution across the Hubble Time, Prague, Aug 2006
Dwarf Galaxies as Astrophysical Probes, Ringberg Castle, Mar 2006
Globular Clusters - Guides to Galaxies, Concepcion, Mar 2006
Local Group Cosmology, Aspen, Feb 2006
Dark Matter Substructure, Boston, Oct 2005
Mass Profiles and Shapes of Cosmological Structures, Paris, Jul 2005
Dynamics of Galaxies: Baryons and Dark Matter, Las Vegas, Mar 2005
LISA symposium, Potsdam, Jul 2000

**INVITED
 COLLOQUIA
 AND SEMINARS**

University of Minnesota, May 2009
 Carnegie Observatories, Jan 2009
 University of California Berkeley, Oct 2003, Apr 2007
 Case Western Reserve University, Dec 2006
 Yale University, May 1998, Dec 2006
 University of Victoria, Nov 2006
 Michigan State University, Sep 2006
 Los Alamos National Laboratory, Mar 2006
 Florida State University, Jan 2006
 University of Waterloo, Mar 2004, Jan 2006
 University of Michigan, Oct 2005
 Max-Planck-Institut fur Astrophysik, May 2005
 Ohio State University, Mar 2005
 University of Nevada, Mar 2005
 Rutgers University, Feb 2005
 Washington State University, Jan 2005
 Carnegie Mellon University, Dec 2004
 Boston University, Oct 2004
 Rochester Institute of Technology, May 2004
 New York University, Mar 2004
 Johns Hopkins University, Feb 2004
 McGill University, Feb 2004
 University of Virginia, Nov 2003
 Columbia University, Oct 2003
 Institute for Advanced Studies, Jerusalem, Jun 2003
 University of Texas, Feb 2003
 University of Chicago, Dec 2002
 Leicester University, Oct 2000
 Durham University, Feb 1999
 Princeton University, Apr 1998

PUBLICATIONS IN REFEREED JOURNALS

56. V. Simha, D. H. Weinberg, R. Dave, **O. Y. Gnedin**, N. Katz & D. Keres, “*The Growth of Central and Satellite Galaxies in Cosmological SPH Simulations*”, 2009, Monthly Notices Royal Astronomical Society, submitted; arXiv:0809.2999
55. M. E. Putman, J. E. G. Peek, A. Muratov, **O. Y. Gnedin** et al., “*The Disruption and Fueling of M33*”, 2009, Astrophysical Journal, submitted; arXiv:0812.3093
54. J. L. Prieto & **O. Y. Gnedin**, “*Dynamical Evolution of Globular Clusters in Hierarchical Cosmology*”, 2008, Astrophysical Journal, 689, 919–935
53. C. Orban, **O. Y. Gnedin**, D. R. Weisz, E. D. Skillman, A. E. Dolphin & J. A. Holtzman, “*Delving Deeper into the Tumultuous Lives of Galactic Dwarfs: Modeling Star Formation Histories*”, 2008, Astrophysical Journal, 686, 1030–1044
52. **O. Y. Gnedin**, D. H. Weinberg, J. Pizagno, F. Prada & H.-W. Rix, “*Dark Matter Halos of Disk Galaxies: Constraints from the Tully-Fisher Relation*”, 2007, Astrophysical Journal, 671, 1115–1134
51. Walker, M. G., ..., **O. Y. Gnedin** et al., “*Velocity Dispersion Profiles of Seven Dwarf Spheroidal Galaxies*”, 2007, Astrophysical Journal, 667, L53–L56
50. T. Goerdt, **O. Y. Gnedin**, B. Moore, J. Diemand & J. Stadel, “*The survival and disruption of CDM micro-haloes: implications for direct and indirect detection experiments*”, 2007, Monthly Notices Royal Astronomical Society, 375, 191–198
49. V. Belokurov, ..., **O. Y. Gnedin** et al., “*Cats and Dogs, Hair and A Hero: A Quintet of New Milky Way Companions*”, 2007, Astrophysical Journal, 654, 897–906
48. K. Z. Stanek, **O. Y. Gnedin**, J. F. Beacom, A. P. Gould, J. A. Johnson, J. A. Kollmeier, M. Modjaz, M. H. Pinsonneault, R. Pogge & D. H. Weinberg, “*Protecting Life in the Milky Way: Metals Keep the GRBs Away*”, 2006, Acta Astronomica, 56, 333–345
47. L. E. Strigari, J. S. Bullock, M. Kaplinghat, A. V. Kravtsov, **O. Y. Gnedin**, K. Abazajian & A. A. Klypin, “*A Large Dark Matter Core in the Fornax Dwarf Spheroidal Galaxy?*”, 2006, Astrophysical Journal, 652, 306–312
46. D. B. Zucker, ..., **O. Y. Gnedin** et al., “*A Curious New Milky Way Satellite in Ursa Major*”, 2006, Astrophysical Journal, 650, L41–L44
45. K. Lee, M. Giavalisco, **O. Y. Gnedin**, R. Somerville, H. Ferguson, M. Dickinson & M. Ouchi, “*The Large-scale and Small-scale Clustering of Lyman-Break Galaxies at $2.5 < z < 5.5$ from the GOODS survey*” 2006, Astrophysical Journal, 642, 63–80
44. A. D. Kaminker, D. G. Yakovlev, A. Y. Potekhin, N. Shibazaki, P. S. Shternin & **O. Y. Gnedin**, “*Magnetars as cooling neutron stars with internal heating*”, 2006, Monthly Notices Royal Astronomical Society, 371, 477–483
43. A. D. Kaminker, M. E. Gusakov, D. G. Yakovlev & **O. Y. Gnedin**, “*Minimal models of cooling neutron stars with accreted envelopes*”, 2006, Monthly Notices Royal Astronomical Society, 365, 1300–1308
42. **O. Y. Gnedin**, A. Gould, J. Miralda-Escude & A. R. Zentner, “*Probing the Shape of the Galactic Halo with Hyper-Velocity Stars*”, 2005, Astrophysical Journal, 634, 344–350

41. A. R. Zentner, A. V. Kravtsov, **O. Y. Gnedin** & A. A. Klypin, “*The Anisotropic Distribution of Galactic Satellites*” 2005, *Astrophysical Journal*, 629, 219–232
40. A. V. Kravtsov & **O. Y. Gnedin**, “*Formation of globular clusters in hierarchical cosmology*”, 2005, *Astrophysical Journal*, 623, 650–665
39. A. Pasquali, S. Larsen, I. Ferreras, **O. Y. Gnedin**, S. Malhotra, J. E. Rhoads, N. Pirzkal & J. R. Walsh, “*Discovery of a Solitaire Dwarf Galaxy in the APPLES Survey*”, 2005, *Astronomical Journal*, 129, 148–159
38. M. E. Gusakov, A. D. Kaminker, D. G. Yakovlev & **O. Y. Gnedin**, “*The cooling of Akmal-Pandharipande-Ravenhall neutron star models*” 2005, *Monthly Notices Royal Astronomical Society*, 363, 555–562
37. M. E. Gusakov, D. G. Yakovlev & **O. Y. Gnedin**, “*Thermal evolution of a pulsating neutron star*” 2005, *Monthly Notices Royal Astronomical Society*, 361, 1415–1424
36. **O. Y. Gnedin**, A. V. Kravtsov, A. A. Klypin & D. Nagai, “*Response of dark matter halos to condensation of baryons: cosmological simulations and improved adiabatic contraction model*”, 2004, *Astrophysical Journal*, 616, 16–26
35. A. V. Kravtsov, **O. Y. Gnedin** & A. A. Klypin, “*The tumultuous lives of galactic dwarfs and the missing satellites problem*”, 2004, *Astrophysical Journal*, 609, 482–497
34. **O. Y. Gnedin** & J. R. Primack, “*Dark Matter Profile in the Galactic Center*”, 2004, *Physical Review Letters*, 93, 061302
33. M. E. Gusakov, A. D. Kaminker, D. G. Yakovlev & **O. Y. Gnedin**, “*Symmetry of the Neutron and Proton Superfluidity Effects in Cooling Neutron Stars*” 2004, *Astronomy Letters*, 30, 759–771
32. M. E. Gusakov, A. D. Kaminker, D. G. Yakovlev & **O. Y. Gnedin**, “*Enhanced cooling of neutron stars via Cooper-pairing neutrino emission*”, 2004, *Astronomy & Astrophysics*, 423, 1063–1071
31. M. E. Gusakov, D. G. Yakovlev, P. Haensel & **O. Y. Gnedin**, “*Direct Urca Process in a Neutron Star Mantle*”, 2004, *Astronomy & Astrophysics*, 421, 1143–1148
30. D. G. Yakovlev, K. P. Levenfish, A. Y. Potekhin, **O. Y. Gnedin** & G. Chabrier, “*Thermal states of coldest and hottest neutron stars in soft X-ray transients*”, 2004, *Astronomy & Astrophysics*, 417, 169–179
29. **O. Y. Gnedin**, “*Dynamical Evolution of Galaxies in Clusters*”, 2003, *Astrophysical Journal*, 589, 752–769
28. **O. Y. Gnedin**, “*Tidal Effects in Clusters of Galaxies*”, 2003, *Astrophysical Journal*, 582, 141–161
27. A. Y. Potekhin, D. G. Yakovlev, G. Chabrier & **O. Y. Gnedin**, “*Thermal Structure and Cooling of Superfluid Neutron Stars with Accreted Magnetized Envelopes*”, 2003, *Astrophysical Journal*, 594, 404–418
26. M. Bejger, D. G. Yakovlev & **O. Y. Gnedin**, “*Cooling of superfluid neutron stars with muons*”, 2003, *Acta Physica Polonica*, B34, 221–230
25. M. E. Gusakov & **O. Y. Gnedin**, “*Cooling of Neutron Stars: Two Types of Triplet Neutron Pairing*”, 2002, *Pisma v Astronom. Zhurnal*, 28, 741–747 (*Astronomy Letters*, 28, 669–675)
24. D. G. Yakovlev, A. D. Kaminker, P. Haensel & **O. Y. Gnedin**, “*The Cooling Neutron Star in 3C 58*”, 2002, *Astronomy & Astrophysics*, 389, L24–L27

23. **O. Y. Gnedin** & H.S. Zhao, “*Maximum Feedback and Dark Matter Profiles of Dwarf Galaxies*”, 2002, Monthly Notices Royal Astronomical Society, 333, 299–306
22. **O. Y. Gnedin**, H.S. Zhao, J. E. Pringle, S. M. Fall, M. Livio & G. Meylan, “*The Unique History of the Globular Cluster Omega Centauri*” 2002, Astrophysical Journal, 568, L23–L26
21. A. D. Kaminker, D. G. Yakovlev & **O. Y. Gnedin**, “*Three Types of Cooling Superfluid Neutron Stars: Theory and Observations*”, 2002, Astronomy & Astrophysics, 383, 1076–1087
20. D. G. Yakovlev, A. D. Kaminker & **O. Y. Gnedin**, “ *1S_0 neutron pairing vs observations of cooling neutron stars*”, 2001, Astronomy & Astrophysics, 379, L5–L8
19. **O. Y. Gnedin** & J. P. Ostriker, “*Limits on Collisional Dark Matter from Elliptical Galaxies in Clusters*”, 2001, Astrophysical Journal, 561, 61–68
18. D. G. Yakovlev, A. D. Kaminker, **O. Y. Gnedin** & P. Haensel, “*Neutrino Emission from Neutron Stars*”, 2001, Physics Reports, 354, 1–155
17. **O. Y. Gnedin**, D. G. Yakovlev & A. Y. Potekhin, “*Thermal Relaxation in Young Neutron Stars*”, 2001, Monthly Notices Royal Astronomical Society, 324, 725–736
16. **O. Y. Gnedin**, H. M. Lee & J. P. Ostriker, “*Effects of Tidal Shocks on the Evolution of Globular Clusters*”, 1999, Astrophysical Journal, 522, 935–949
15. **O. Y. Gnedin**, L. Hernquist & J. P. Ostriker, “*Tidal Shocking by Extended Mass Distributions*”, 1999, Astrophysical Journal, 514, 109–118
14. **O. Y. Gnedin** & J. P. Ostriker, “*On the Self-Consistent Response of Stellar Systems to Gravitational Shocks*”, 1999, Astrophysical Journal, 513, 626–637
13. N. Y. Gnedin & **O. Y. Gnedin**, “*Cosmological Neutrino Background Revisited*”, 1998, Astrophysical Journal, 509, 11–15
12. **O. Y. Gnedin**, “*Emission Lines from Companion Galaxies of QSOs*”, 1997, Astrophysical Journal, 491, 69–77
11. W. N. Colley, **O. Y. Gnedin**, J. P. Ostriker & J. E. Rhoads, “*Dynamics of ‘Small Galaxies’ in the Hubble Deep Field*”, 1997, Astrophysical Journal, 488, 579–584
10. J. P. Ostriker & **O. Y. Gnedin**, “*The Globular Cluster Luminosity Function as a Distance Indicator: Dynamical Effects*”, 1997, Astrophysical Journal, 487, 667–671
9. **O. Y. Gnedin**, “*On the Evolution of the Globular Cluster Luminosity Function: The Differences*”, 1997, Astrophysical Journal, 487, 663–666
8. **O. Y. Gnedin** & J. P. Ostriker, “*Destruction of the Galactic Globular Cluster System*”, 1997, Astrophysical Journal, 474, 223–255
7. **O. Y. Gnedin**, J. Goodman & Z. Frei, “*Measuring spiral arm torques: results for M100*”, 1995, Astronomical Journal, 110, 1105–1114
6. **O. Y. Gnedin** & D. G. Yakovlev, “*Thermal conductivity of electrons and muons in neutron star cores*”, 1995, Nuclear Physics, A582, 697–716
5. P. Haensel & **O. Y. Gnedin**, “*Direct URCA processes involving hyperons and cooling of neutron stars*”, 1994, Astronomy & Astrophysics, 290, 458–462

4. **O. Y. Gnedin**, D. G. Yakovlev & Yu. A. Shibano, “*Neutron and proton superfluidity in cooling neutron stars*”, 1994, Pisma v Astronom. Zhurnal, 20, 483–490 (Astronomy Letters, 20, 409–415)
3. **O. Y. Gnedin** & D. G. Yakovlev, “*Convection in the cores of neutron stars*”, 1994, Pisma v Astronom. Zhurnal, 20, 50–53 (Astronomy Letters, 20, 40–42)
2. **O. Y. Gnedin** & D. G. Yakovlev, “*Cooling of neutron stars and suppression of direct URCA processes by nucleon superfluidity*”, 1993, Pisma v Astronom. Zhurnal, 19, 280–287 (Astronomy Letters, 19, 104–107)
1. A. D. Kaminker, **O. Y. Gnedin**, D. G. Yakovlev, P. Amsterdamski & P. Haensel, “*Neutrino emissivity from e^-e^+ annihilation in a strong magnetic field: hot, nondegenerate plasma*”, 1992, Physical Review, D46, 4133–4139

SELECTED NON-REFEREED PUBLICATIONS

25. M. E. Putman, ..., **O. Y. Gnedin** et al. “*How do Galaxies Accrete Gas and Form Stars?*”, 2009, Science white paper for the 2010 Decadal Survey in Astrophysics (arXiv:0902.4717)
24. E. Shaya, ..., **O. Y. Gnedin** et al. “*Properties of Dark Matter Revealed by Astrometric Measurements of the Milky Way and Local Galaxies*”, 2009, Science white paper for the 2010 Decadal Survey in Astrophysics (arXiv:0902.2835)
23. S. R. Majewski, ..., **O. Y. Gnedin** et al., “*Galactic Dynamics and Local Dark Matter*”, 2009, Chapter 4 of the 2009 SIM Lite Book (arXiv:0902.2759)
22. **O. Y. Gnedin** & J. L. Prieto, “*Dynamical Evolution of Globular Clusters in Hierarchical Cosmology*”, 2008, in Dynamical Evolution of Dense Stellar Systems, IAU Symposium 246, Capri, eds. E. Vesperini, M. Giersz & A. Sills (arXiv:0711.4598)
21. D. G. Yakovlev, **O. Y. Gnedin**, A. D. Kaminker & A. Y. Potekhin, “*Theory of cooling neutron stars versus observations*”, 2008, in 40 Years of Pulsars, Montreal, eds. C. Bassa et al. (arXiv:0710.2047)
20. **O. Y. Gnedin**, “*Formation of dwarf galaxies and small-scale problems of CDM*”, 2007, in Galaxy Evolution across the Hubble Time, IAU Symposium 235, Prague, eds. F. Combes & J. Palous (astro-ph/0611270)
19. **O. Y. Gnedin** & J. L. Prieto, “*Formation of Globular Clusters in Hierarchical Cosmology: ART and Science*”, 2006, in Globular Clusters – Guides to Galaxies, Concepcion, Chile, ed. T. Richtler (astro-ph/0606169)
18. **O. Y. Gnedin**, “*Contraction of Dark Matter Halos in Response to Condensation of Baryons*”, 2006, in Mass Profiles and Shapes of Cosmological Structures, XXI AIP Colloquium, Paris, eds. G. A. Mamon, F. Combes, C. Deffayet, B. Fort, EAS Publications Series, 20, 59–64 (astro-ph/0510539)
17. D. G. Yakovlev, K. P. Levenfish & **O. Y. Gnedin**, “*Pycnonuclear reactions in dense stellar matter*”, 2005, European Physical Journal A, 25, 669–672 (astro-ph/0501653)
16. D. G. Yakovlev, **O. Y. Gnedin**, M. E. Gusakov, A. D. Kaminker, K. P. Levenfish & A. Y. Potekhin, “*Neutron star cooling*”, 2005, Nucl. Phys. A, 752, 590-599 (International Nuclear Physics Conference INPS2004, astro-ph/0409751)

15. **O. Y. Gnedin**, “*First starbursts at high redshift: Formation of globular clusters*”, 2004, in *Multi-Wavelength Cosmology*, ed. M. Plionis (Kluwer), 215–218 (astro-ph/0309466)
14. D. G. Yakovlev, **O. Y. Gnedin**, A. D. Kaminker, K. P. Levenfish & A. Y. Potekhin, “*Neutron star cooling: Theoretical aspects and observational constraints*”, 2004, *Advances in Space Research*, 33, 523–530 (astro-ph/0306143)
13. **O. Y. Gnedin**, “*Formation of Globular Clusters: In and Out of Dwarf Galaxies*”, 2003, in *Extragalactic Globular Cluster Systems*, ed. M. Kissler-Patig (Springer: ESO), 224–229 (astro-ph/0210556)
12. D. G. Yakovlev, **O. Y. Gnedin**, A. D. Kaminker & A. Y. Potekhin, “*Cooling of Superfluid Neutron Stars*”, 2002, in *270 Heraeus Seminar on Neutron Stars, Pulsars and Supernova Remnants*, ed. W. Becker, H. Lesch & J. Trümper (Garching: MPE), 287–299 (astro-ph/0204226)
11. **O. Y. Gnedin**, “*Can dark matter be self-gravitating?*”, 2002, in *Where’s the matter? Tracing dark and bright matter with the new generation of large-scale surveys*, ed. L. Tresse & M. Treyer (Laboratoire d’Astrophysique de Marseille), 267–268
10. **O. Y. Gnedin**, O. Lahav & M. J. Rees, “*Do globular clusters time the Universe?*”, 2001 (astro-ph/0108034) unpublished
9. **O. Y. Gnedin**, “*Tidal shocking and destruction of globular clusters*”, 2001, *Astronomical & Astrophysical Transactions (JENAM-2000, Moscow)*
8. **O. Y. Gnedin**, “*Million solar mass black holes at high redshift*”, 2001, *Classical and Quantum Gravity*, 18, 3983–3988 (Third LISA symposium, Postdam) (astro-ph/0108070)
7. D. G. Yakovlev, **O. Y. Gnedin** & A. Y. Potekhin, “*Strongly Coupled Coulomb and Nuclear Plasma in Inner Crusts of Neutron Stars*”, 2001, *Plasma Physics*, 41, 227–230 (astro-ph/0012424)
6. **O. Y. Gnedin**, “*Dark Matter in Clusters of Galaxies*”, 2000, *Astronomical & Astrophysical Transactions*, 19, 437–448 (Gamow symposium, St Petersburg)
5. **O. Y. Gnedin**, “*Tidal Effects and Galaxy Evolution in Clusters of Galaxies*”, 1999, Ph.D. Thesis, Princeton University
4. **O. Y. Gnedin**, “*Dynamics of Galaxies in Clusters*”, 1998, in *Galaxy Dynamics*, ed. D. Merritt, J. A. Sellwood & M. Valluri (San Francisco: ASP Conference Series 182), 495–496 (astro-ph/9811064)
3. **O. Y. Gnedin** & J. P. Ostriker, “*Evolution of Globular Clusters: Effects of Tidal Shocks*”, 1997, in *Galactic Halos*, ed. D. Zaritsky (San Francisco: ASP Conference Series 136), 56–59 (astro-ph/9711313)
2. J. P. Ostriker & **O. Y. Gnedin**, “*Dynamical Evolution of Globular Clusters*”, 1996, in *Gravitational Dynamics*, ed. O. Lahav, E. Terlevich & R. J. Terlevich (Cambridge: Cambridge University Press), 43–54
1. **O. Y. Gnedin**, J. Goodman & J. E. Rhoads, “*Measuring spiral arm torques: M100 in K*”, 1996, in *Spiral Galaxies in the Near-IR*, ed. D. Minniti & H.-W. Rix (Springer-Verlag), 184–185