

Vladislav I. Kondratiev

CURRICULUM VITAE

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Date of birth: September 28, 1976

Nationality: Russian

Languages: English (fluent); Dutch (Intermediate, B1); Russian (native)

Research interests

Low-frequency studies of pulsars with LOFAR: pulsar profiles and spectra, polarisation, scattering, single-pulse studies, all-sky and targetted searches of pulsars and fast transients. **Giant pulses (GPs):** high-time resolution studies, correlation with high-energy emission, searching for GP pulsars. **Pulsar searches:** surveys with LOFAR (LOTAAS) and GBT (GBNCC, 350-MHz Driftscan), radio pulsations from cooling isolated neutron stars, pulsars in Local Group galaxies. **Digital signal processing and scientific programming.**

Education

04/1999 – 04/2004	Ph.D. in astrophysics and radio astronomy: Astro Space Center of the Lebedev Physical Institute, Russian Academy of Sciences. Thesis Title: “Giant Pulses and Micropulses in Pulsar Radio Emission”. Advisor: Dr. M.V. Popov
09/1993 – 01/1999	M.Sc. in Astronomy: Lomonosov Moscow State University. Thesis Title: “Investigation of frequency structure of radio scintillations from pulsars by the method of predetection dispersion removal”. Advisor: Dr. M.V. Popov

Employment

ASTRON, Dwingeloo, The Netherlands

01/2014 — present Research Associate (DRAGNET project)

ASTRON, Dwingeloo, The Netherlands

10/2009 — 12/2013 Research Associate

Department of Physics, West Virginia University, Morgantown, USA

09/2006 — 09/2009 Research Associate

Astro Space Center of the Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia

07/2005 — 08/2006 Researcher

02/2004 — 01/2005 Researcher

02/2001 — 01/2004 Junior researcher (half and full time)

Department of Physics and Astronomy, York University, Toronto, Canada

02/2005 — 06/2005 Research Associate

Research Grants

Since 1995, I have received 13 grants individually and as a member of a group (not counting multiple travel grants, e.g. LKBF). The most significant ones are:

2008–2010	NASA ATP grant, “Theoretical study of neutron stars: the double pulsar, Crab and magnetars”, PI: Maxim Lyutikov (Purdue Univ.), Co-I
2007–2012	WV EPSCoR Research Challenge Grant, “A Center for Astrophysics at WVU”, Co-I
2005–2006	Grant of the President of Russian Federation, MK-4032.2005.2, PI
2004–2006	Russian Foundation for Basic Research (RFBR), 04-02-16384, Co-I
2003	RFBR grant for Young Scientists, 03-02-06759-mas, PI
2001–2003	RFBR, 01-02-16326, Co-I
2001–2003	RFBR, 01-02-16871, Co-I

Teaching and Outreach

- Participated in several ASTRON’s Open Days, telling kids and their parents about pulsars and helping them to make their own pulsar, “Knutselpulsar”:
 - ASTRON Open Day, ASTRON, Oct 4, 2015;
 - LOFAR Open Day, Buinen, Oct 5, 2013;
 - SNN EU Kijkdag, Buinen, May 12, 2012;
- Lecture “About research at ASTRON, astronomy and radio telescopes” for gymnasium school students from Kurgan, Russia (Dwingeloo), April, 2011;
- ASTRON/JIVE Summer Student Program:
 - Primary supervisor of summer student Xiaoxi Song on a project of studying pulsars’ anomalously intensive pulses with LOFAR, June-August, 2016;
 - Summer student lecture, *Pulsars*, July, 2016;
 - Co-supervisor of summer student Claire Gilpin on a project related to searches of fast transient signals with LOFAR and design of LOFAR low-frequency all-sky survey (LoMASS), June-August, 2011;
 - Summer student lecture, *Pulsars*, July, 2011;
 - Primary supervisor of summer student Vishal Gajjar on a project of searching for pulsars with LOFAR, June-August, 2010;
 - Summer student lecture, *A Brief Introduction to LOFAR*, July, 2010;
- As a member of Pulsar Search Collaboratory (PSC) project¹: participated in preparing and performing the GBT observing session for high-school teachers and students during the PSC workshop, Green Bank, July 2008;
- Organised and carried out pulsar hands-on project during the NAIC-NRAO Summer School on Single-Dish Radio Astronomy, Green Bank, July, 2007.

Programming/Software/Computer skills

Software and programming

- Extensive experience in C/C++ and Python programming (including numpy, scipy, matplotlib, seaborn);

¹<http://www.pulsarsearchcollaboratory.com>

- Working knowledge of Perl, HTML, Postscript, PHP5, MySQL;
- Broad experience in developing and improving of scientific software²:
 - encoding pulsar data obtained with various pulsar backends (S2-TCI, Portable Pulsar Receiver, NAIC JPL Portable Fast Sampler, New Mexico Tech fast pulsar DAS, VLBA Mark5A, K5 VLBI, LOFAR DAL);
 - implementation of Fast Folding Algorithm to search for pulsar signals in noisy time series (<https://github.com/vkond/ffasearch>);
 - visualization of binary data using X11/Xt and PGPLOT libraries (<https://github.com/vkond/see>);
 - implementation of LOFAR DAL support in PRESTO pulsar package to work with LOFAR raw beamformed data (<https://github.com/vkond/presto-lofar>);
 - various Perl and Python scripts in support for observations with many telescopes, LOFAR scheduling, retrieval of beamformed data from the LOFAR Long-Term Archive (LTA), LOFAR Pulsar flux calibration, and others (<https://github.com/vkond/LOFAR-BF-pulsar-scripts>).
- Knowledge of GPU programming;
- Pulsar software: PRESTO, PSRCHIVE, Sigproc, dspsr, Tempo, Tempo2, and others.

Pipelines

- Developed more sophisticated Python-based LOFAR PULsar Pipeline for known pulsars (PULP), that was incorporated into the LOFAR Pipeline Framework since Cycle 3 of LOFAR observing to be run automatically by central system after an observation;
- Adapted PULP to be run on LOFAR DRAGNET³ GPU cluster;
- PULP upgrade for the LOFAR CEP4 cluster with the support for Slurm, global file system and docker containers.

System setup, maintenance, administration

- Setup and maintenance of the 32-node Beowulf cluster and astro lab computers at Physics Department of WVU;
- Extensive experience in installing and setting up Linux on x86-based computers;
- Together with the DRAGNET team: prepared requirements and tender for the 23-node LOFAR DRAGNET GPU cluster with 4 NVidia GeForce GTX-Titan X cards per node; evaluated offers; installed and set up various pulsar software on the cluster.

Software courses

- Series of supercomputing courses organised by SARA/UvA in June 2013 (Amsterdam). In addition to mandatory “General Introduction” and “Introduction to UNIX” courses, I have also taken courses on MPI, on using the Dutch national supercomputer Carteusis, as well as the course “Adapting software in HPC environment”.
- Python courses – basic (3 days), advanced (3 days) and numerical (1 day) – by the AT Computing company (Nijmegen), February 2014.

²<http://www.astron.nl/~kondratiev/software.html>

³<http://www.astron.nl/dragnet/>

Membership

LOFAR Pulsar Working Group
 LOFAR Transients Key Science Project
 COAST, Compact Objects with ASKAP (software and pipeline development working groups)
 Former member of Pulsar Search Collaboratory project
 International Astronomical Union
 Scientific Council of the Astro Space Center of the Lebedev Physical Institute of the Russian Academy of Sciences

Honors and Awards

01/1999 M.Sc. degree with honor and the gold medal of the Lomonosov Moscow State University for excellent achievements
 1998 Scholarship of the International Soros Science Educational Program

Recent presentations

I have delivered over 50 scientific talks on pulsar related topics over the last 15 years at major international conferences and during visits to scientific establishments. Most recent ones are:

LOFAR censuses of MSPs and slow pulsars: profiles, fluxes, spectra, DMs — IPTA2016 science meeting, Stellenbosch, SA; Jun 28, 2016.

LOFAR Census of Millisecond Pulsars — “Science at Low Frequencies II” meeting, Albuquerque, NM, USA; Dec 3, 2015.

LOFAR Observations of (ms) pulsars — MIAPP workshop “The Many Faces of Neutron Stars”, Munich, Germany; Sep 11, 2015 (Invited).

Giant radio pulses — the 40th COSPAR Scientific Assembly, session E1.15 “Rotation-Powered Pulsars from Radio to the Highest Energies”, Moscow, Russia; Aug 3, 2014 (Invited).

Millisecond pulsars at low frequencies with LOFAR — conference “Physics of Neutron Stars – 2014”, St. Petersburg, Russia; Jul 28, 2014.

LOFAR: Building a Flexible and Responsive Radio Telescope for Pulsars and Transients — workshop “GWADW 2013 – Gravitational Wave Detectors for the Next Decade Workshop”, Isola d’Elba, Italy; May 21, 2013 (Invited).

LOFAR’s View of Millisecond Pulsars — conference “The Modern Radio Universe 2013”, Bonn, Germany; Apr 23, 2013.

LOFAR’s View of Millisecond Pulsars — symposium “NS2013: Latest results from the neutron-star laboratory”, Amsterdam, NL; May 6, 2013.

All refereed research papers

77. McKean, J. P., Godfrey, L. E. H., Vegetti, S., et al., *LOFAR imaging of Cygnus A — Direct detection of a turnover in the hotspot radio spectra*, 2016, MNRAS, 463, 3143
76. LIGO Scientific Collaboration, VIRGO Collaboration, et al., *Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013*, 2016, Phys. Rev. D, 93, 122008
75. Bilous, A., **Kondratiev, V. I.**, Kramer, M., Keane, E., Hessels, J. W. T., Stappers, B. W., Malofeev, V., Sobey, C., et al., *A LOFAR census of non-recycled pulsars: average profiles, dispersion measures, flux densities, and spectra*, 2016, A&A, 591, 34
74. Buitink, S., Corstanje, A., Falcke, H., et al., *A large light-mass component of cosmic rays at 10^{17} – $10^{17.5}$ electronvolts from radio observations*, 2016, Nature, 531, 70
73. Stewart, A. J., Fender, R. P., Broderick, J. W., et al., *LOFAR MSSS: detection of a low-frequency radio transient in 400 h of monitoring of the North Celestial Pole*, 2016, MNRAS, 456, 2321
72. Girard, J. N., Zarka, P., Tasse, C., et al., *Imaging Jupiter’s radiation belts down to 127 MHz with LOFAR*, 2016, A&A, 587, 3
71. **Kondratiev, V. I.**, Verbiest, J. P. W., Hessels, J. W. T., Bilous, A. V., Stappers, B. W., Kramer, M., Keane, E.F., Noutsos, A., Osłowski, S., Breton, R. P., Hassall, T. E., et al., *A LOFAR census of millisecond pulsars*, 2016, A&A, 585, 128
70. Pilia, M., Hessels, J. W. T., Stappers, B. W., **Kondratiev, V. I.**, Kramer, M., van Leeuwen, J., Weltevrede, P., Lyne, A. G., Zagkouris, K., Hassall, T. E., et al., *Wide-band, low-frequency pulse profiles of 100 radio pulsars with LOFAR*, 2016, A&A, 586, 92
69. Orrù, E., van Velzen, S., Pizzo, R. F., et al., *Wide-field LOFAR imaging of the field around the double-double radio galaxy B1834+620. A fresh view on a restarted AGN and doubletjes*, 2015, A&A, 584, 112
68. Nelles, A., Hörandel, J. R., Karskens, T., et al., *Calibrating the absolute amplitude scale for air showers measured at LOFAR*, 2015, Journal of Instrumentation, 10, P11005
67. Heald, G. H., Pizzo, R. F., Orrù, E., et al., *The LOFAR Multifrequency Snapshot Sky Survey (MSSS). I. Survey description and first results*, 2015, A&A, 582, 123
66. Karastergiou, A., Chennamangalam, J., Armour, W., et al., *Limits on fast radio bursts at 145 MHz with ARTEMIS, a real-time software backend*, 2015, MNRAS, 452, 1254
65. Sobey, C., Young, N. J., Hessels, J. W. T., Weltevrede, P., Noutsos, A., Stappers, B. W., Kramer, M., Bassa, C., Lyne, A. G., **Kondratiev, V. I.**, Hassall, T. E., Keane, E. F., et al., *LOFAR discovery of a quiet emission mode in PSR B0823+26*, 2015, MNRAS, 451, 2493
64. Karako-Argaman, C., Kaspi, V. M., Lynch, R. S., Hessels, J. W. T., **Kondratiev, V. I.**, McLaughlin, M. A., Ransom, S. M., Archibald, A. M., Boyles, J., Jenet, F. A., Kaplan, D. L., Levin, L., Lorimer, D. R., Madsen, E. C., Roberts, M. S. E., Siemens, X., Stairs, I. H., Stovall, K., Swiggum, J. K., and van Leeuwen, J., *Discovery and Follow-up of Rotating Radio Transients with the Green Bank and LOFAR Telescopes*, 2015, ApJ, 809, 67
63. Morosan, D. E., Gallagher, P. T., Zucca, P., et al., *LOFAR tied-array imaging and spectroscopy of solar S bursts*, 2015, A&A, 580, 65

62. Vedantham, H. K., Koopmans, L. V. E., de Bruyn, A. G., et al., *Lunar occultation of the diffuse radio sky: LOFAR measurements between 35 and 80 MHz*, 2015, MNRAS, 450, 2291
61. Shulevski, A., Morganti, R., Barthel, P. D., et al., *The peculiar radio galaxy 4C 35.06: a case for recurrent AGN activity?*, 2015, A&A, 579, 27
60. Nelles, A., Schellart, P., Buitink, S., et al., *Measuring a Cherenkov ring in the radio emission from air showers at 110-190 MHz with LOFAR*, 2015, Astroparticle Physics, 65, 11
59. Schellart, P., Trinh, T. N. G., Buitink, S., et al., *Probing Atmospheric Electric Fields in Thunderstorms through Radio Emission from Cosmic-Ray-Induced Air Showers*, 2015, Physical Review Letters, 114, 165001
58. Noutsos, A., Sobey, C., **Kondratiev, V. I.**, Weltevrede, P., Verbiest, J. P. W., Karastergiou, A., Kramer, M., Kuniyoshi, M., et al., *Pulsar polarisation below 200 MHz: Average profiles and propagation effects*, 2015, A&A, 576, 62
57. Garsden, H., Girard, J. N., Starck, J. L., et al., *LOFAR sparse image reconstruction*, 2015, A&A, 575, 90
56. Corstanje, A., Schellart, P., Nelles, A., et al., *The shape of the radio wavefront of extensive air showers as measured with LOFAR*, 2015, Astroparticle Physics, 61, 22
55. Moldón, J., Deller, A. T., Wucknitz, O., et al., *The LOFAR long baseline snapshot calibrator survey*, 2015, A&A, 574, 73
54. Bilous, A. V., Hessels, J. W. T., **Kondratiev, V. I.**, van Leeuwen, J., Stappers, B. W., Weltevrede, P., Falcke, H., Hassall, T. E., Pilia, M., Keane, E., Kramer, M., Griebmeier, J.-M., and Serylak, M., *LOFAR observations of PSR B0943+10: profile evolution and discovery of a systematically changing profile delay in bright mode*, 2014, A&A, 572, 52
53. Dolch, T., Lam, M. T., Cordes, J., et al., *A 24 Hr Global Campaign to Assess Precision Timing of the Millisecond Pulsar J1713+0747*, 2014, ApJ, 794, 21
52. van Weeren, R. J., Williams, W. L., Tasse, C., et al., *LOFAR Low-band Antenna Observations of the 3C 295 and Boötes Fields: Source Counts and Ultra-steep Spectrum Sources*, 2014, ApJ, 793, 82
51. Coenen, T., van Leeuwen, J., Hessels, J. W. T., Stappers, B. W., **Kondratiev, V. I.**, Alexov, A., Breton, R. P., Bilous, A., Cooper, S., Falcke, H., Fallows, R. A., Gajjar, V., Griebmeier, J.-M., Hassall, T. E., Karastergiou, A., Keane, E. F., Kramer, M., Kuniyoshi, M., Noutsos, A., Osłowski, S., Pilia, M., Serylak, M., Schrijvers, C., Sobey, C., ter Veen, S., Verbiest, J., Weltevrede, P., Wijnholds, S., Zagkouris, K., van Amesfoort, A.S., et al., *The LOFAR pilot surveys for pulsars and fast radio transients*, 2014, A&A, 570, 60
50. Stovall, K., Lynch, R. S., Ransom, S. M., et al., *The Green Bank Northern Celestial Cap Pulsar Survey. I. Survey Description, Data Analysis, and Initial Results*, 2014, ApJ, 791, 67
49. Archibald, A. M., **Kondratiev, V. I.**, Hessels, J. W. T., and Stinebring, D. R., *Millisecond Pulsar Scintillation Studies with LOFAR: Initial Results*, 2014, ApJ, 790, L22
48. Jelić, V., de Bruyn, A. G., Mevius, M., et al., *Initial LOFAR observations of epoch of reionization windows. II. Diffuse polarized emission in the ELAIS-N1 field*, 2014, A&A, 568, 101
47. Morosan, D. E., Gallagher, P. T., Zucca, P., et al., *LOFAR tied-array imaging of Type III solar radio bursts*, 2014, A&A, 568, 67
46. Oonk, J. B. R., van Weeren, R. J., Salgado, F., et al., *Discovery of carbon radio recombination lines in absorption towards Cygnus A*, 2014, MNRAS, 437, 3506

45. Ransom, S. M., Stairs, I. H., Archibald, A. M., et al., *A millisecond pulsar in a stellar triple system*, 2014, *Nature*, 505, 520
44. Schellart, P., Nelles, A., Buitink, S., et al., *Detecting cosmic rays with the LOFAR radio telescope*, 2013, *A&A*, 560, 98
43. Offringa, A. R., de Bruyn, A. G., Zaroubi, S., et al., *The brightness and spatial distributions of terrestrial radio sources*, 2013, *MNRAS*, 435, 584
42. Iacobelli, M., Haverkorn, M., Orrú, E., et al., *Studying Galactic interstellar turbulence through fluctuations in synchrotron emission. First LOFAR Galactic foreground detection*, 2013, *A&A*, 558, 72
41. van Haarlem, M. P., Wise, M. W., Gunst, A. W., et al., *LOFAR: The LOw-Frequency ARray*, 2013, *A&A*, 556, 2
40. Bietenholz, M. F., **Kondratiev, V.**, Ransom, S., Slane, P., Bartel, N., Buchner, S., *The proper motion of PSR J0205+6449 in 3C 58*, 2013, *MNRAS*, 431, 2590
39. Rosen, R., Swiggum, J., McLaughlin, M. A., Lorimer, D. R., Yun, M., Heatherly, S. A., Boyles, J., Lynch, R., **Kondratiev, V. I.**, Scoles, S., Ransom, S. M., Moniot, M. L., Cottrill, A., Weaver, M., Snider, A., Thompson, C., Raycraft, M., Dudenhoefer, J., Allphin, L., Thorley, J., Meadows, B., Marchiny, G., Liska, A., O'Dwyer, A. M., Butler, B., Bloxton, S., Mabry, H., Abate, H., Boothe, J., Pritt, S., Alberth, J., Green, A., Crowley, R. J., Agee, A., Nagley, S., Sargent, N., Hinson, E., Smith, K., McNeely, R., Quigley, H., Pennington, A., Chen, S., Maynard, T., Loope, L., Bielski, N., McGough, J. R., Gural, J. C., Colvin, S., Tso, S., Ewen, Z., Zhang, M., Ciccarella, N., Bukowski, B., Novotny, C. B., Gore, J., Sarver, K., Johnson, S., Cunningham, H., Collins, D., Gardner, D., Monteleone, A., Hall, J., Schweinhagen, R., Ayers, J., Jay, S., Uossep, B., Dunkum, D., Pal, J., Dydiw, S., Sterling, M., and Phan, E., *The Pulsar Search Collaboratory: Discovery and Timing of Five New Pulsars*, 2013, *ApJ*, 768, 85
38. Antoniadis, J., Freire, P. C. C., Wex, N., et al., *A Massive Pulsar in a Compact Relativistic Binary*, 2013, *Science*, 340, 448
37. Zhuravlev, V. I., Popov, M. V., Soglasnov, V. A., **Kondrat'ev, V. I.**, Kovalev, Y. Y., Bartel, N., and Ghigo, F., *Statistical and polarization properties of giant pulses of the millisecond pulsar B1937+21*, 2013, *MNRAS*, 430, 2815
36. Hassall, T. E., Stappers, B. W., Weltevrede, P., Hessels, J. W. T., Alexov, A., Coenen, T., Karastergiou, A., Kramer, M., Keane, E. F., **Kondratiev, V. I.**, van Leeuwen, J., Noutsos, A., Pilia, M., Serylak, M., Sobey, C., Zagkouris, K., Fender, R., et al., *Differential frequency-dependent delay from the pulsar magnetosphere*, 2013, *A&A*, 552, 61
35. Sotomayor-Beltran, C., Sobey, C., Hessels, J. W. T., et al., *Calibrating high-precision Faraday rotation measurements for LOFAR and the next generation of low-frequency radio telescopes*, 2013, *A&A*, 552, 58
34. Asgekar, A., Oonk, J. B. R., Yatawatta, S., et al., *LOFAR detections of low-frequency radio recombination lines towards Cassiopeia A*, 2013, *A&A*, 551, L11
33. Lynch, R. S., Boyles, J., Ransom, S. M., Stairs, I. H., Lorimer, D. R., McLaughlin, M. A., Hessels, J. W. T., Kaspi, V. M., **Kondratiev, V. I.**, Archibald, A. M., Berndsen, A., Cardoso, R. F., Cherry, A., Epstein, C. R., Karako-Argaman, C., McPhee, C. A., Pennucci, T., Roberts, M. S. E., Stovall, K., and van Leeuwen, J., *The Green Bank Telescope 350 MHz Drift-scan Survey II: Data Analysis and the Timing of 10 New Pulsars, Including a Relativistic Binary*, 2013, *ApJ*, 763, 81

32. Boyles, J., Lynch, R. S., Ransom, S. M., Stairs, I. H., Lorimer, D. R., McLaughlin, M. A., Hessels, J. W. T., Kaspi, V. M., **Kondratiev, V. I.**, Archibald, A., Berndsen, A., Cardoso, R. F., Cherry, A., Epstein, C. R., Karako-Argaman, C., McPhee, C. A., Pennucci, T., Roberts, M. S. E., Stovall, K., and van Leeuwen, J., *The Green Bank Telescope 350 MHz Drift-scan survey. I. Survey Observations and the Discovery of 13 Pulsars*, 2013, ApJ, 763, 80
31. Yatawatta, S., de Bruyn, A. G., Brentjens, M. A., et al., *Initial deep LOFAR observations of epoch of reionization windows. I. The north celestial pole*, 2013, A&A, 550, 136
30. Hermsen, W., Hessels, J. W. T., Kuiper, L., et al., *Synchronous X-ray and Radio Mode Switches: A Rapid Global Transformation of the Pulsar Magnetosphere*, 2013, Science, 339, 436
29. Offringa, A. R., de Bruyn, A. G., Zaroubi, S., et al., *The LOFAR radio environment*, 2013, A&A, 549, 11
28. VERITAS Collaboration and **Kondratiev, V. I.**, *Search for a Correlation between Very-high-energy Gamma Rays and Giant Radio Pulses in the Crab Pulsar*, 2012, ApJ, 760, 136
27. Mickaliger, M. B., McLaughlin, M. A., Lorimer, D. R., Langston, G. I., Bilous, A. V., **Kondratiev, V. I.**, Lyutikov, M., Ransom, S. M., and Palliyaguru, N., *A Giant Sample of Giant Pulses from the Crab Pulsar*, 2012, ApJ, 760, 64
26. Kaplan, D. L., Stovall, K., Ransom, S. M., et al., *Discovery of the Optical/Ultraviolet/Gamma-Ray Counterpart to the Eclipsing Millisecond Pulsar J1816+4510*, 2012, ApJ, 753, 174
25. Hassall, T. E., Stappers, B. W., Hessels, J. W. T., Kramer, M., Alexov, A., Anderson, K., Coenen, T., Karastergiou, A., Keane, E. F., **Kondratiev, V. I.**, van Leeuwen, J., Noutsos, A., Sobey, C., Verbiest, J. P. W., Weltevrede, P., Fender, R., Wijers, R. A. M. J., et al., *Wide-band Simultaneous Observations of Pulsars: Disentangling Dispersion Measure and Profile Variations*, 2012, A&A, 543, 66
24. Bilous, A. V., McLaughlin, M. A., **Kondratiev, V. I.**, & Ransom, S. M., *Correlation of Chandra photons with the radio giant pulses from the Crab pulsar*, 2012, ApJ, 749, 24
23. Zhuravlev, V. I., Popov, M. V., **Kondrat'ev, V. I.**, Kovalev, Yu. Yu., Ghigo, F., & Soglasnov, V. A., *Parameters of giant pulses from the Crab pulsar measured with the Mark5A VLBI system*, 2011, Astronomy Reports, 55, 724
22. Stappers, B. W., Hessels, J. W. T., Alexov, A., Anderson, K., Coenen, T., Hassall, T., Karastergiou, A., **Kondratiev, V. I.**, Kramer, M., van Leeuwen, J., Mol, J. D., Noutsos, A., Romein, J. W., Weltevrede, P., Fender, R., Wijers, R. A. M. J., et al., *Observing pulsars and fast transients with LOFAR*, 2011, A&A, 530, 80
21. Bilous, A. V., **Kondratiev, V. I.**, McLaughlin, M. A., Ransom, S. M., Lyutikov, M., Mickaliger, M., Langston, G. I., *Correlation of Fermi Photons with High-frequency Radio Giant Pulses from the Crab Pulsar*, 2011, ApJ, 728, 110
20. Jessner, A., Popov, M. V., **Kondratiev, V. I.**, Kovalev, Y. Y., Graham, D., Zensus, A., Soglasnov, V. A., Bilous, A. V., & Moshkina, O. A., *Giant pulses with nanosecond time resolution detected from the Crab pulsar at 8.5 and 15.1 GHz*, 2010, A&A, 524, 60
19. Rosen, R., Heatherly, S., McLaughlin, M. A., Lynch, R., **Kondratiev, V. I.**, Boyles, J. R., Wilson, M., Lorimer, D. R., & Ransom, S. M., *The Pulsar Search Collaboratory*, 2010, Astronomy Education Review, 9, 1, p. 010106 (arXiv:1005.1060)
18. Popov, M. V., Soglasnov, V. A., **Kondratiev, V. I.**, Bilous, A. V., Moshkina, O. A., Oreshko, V. V., Ilyasov, Yu. P., Sekido, M., & Kondo, T., *Multifrequency Study of Giant Radio Pulses from the Crab Pulsar with the K5 VLBI Recording Terminal*, 2009, PASJ, 61, 6, 1197

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