

Curriculum Vitae
Dmitry CHERNYAK

Current position

Project Researcher
Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo
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Joint affiliation

Junior Scientific Researcher
Institute for Nuclear Research of the National Academy of Sciences of Ukraine
47 Prospekt Nauky, MSP 03680, Kyiv, Ukraine
Phone: +38-044-525-52-83, Fax: +38-044-525-44-63
E-mail: chernyak@kinr.kiev.ua Website: <http://lpd.kinr.kiev.ua/>

Languages

Russian and Ukrainian – native; English – proficient; Japanese – elementary

Education

- ❖ Ph.D. in Nuclear, Particle and High Energy Physics, Nov. 2011 – July 2015
Institute for Nuclear Research NASU, Kyiv, Ukraine / Centre de Sciences Nucléaires et de Sciences de la Matière and University of Paris-Sud, Orsay, France
Thesis title: “Development of cryogenic low background detector based on enriched zinc molybdate crystal scintillators to search for neutrinoless double beta decay of ^{100}Mo ”,
<http://arxiv.org/abs/1507.04591>
- ❖ Master of Science, experimental nuclear physics, Sept. 2009 – June 2011
Taras Shevchenko National University of Kyiv, Faculty of Physics, Nuclear Physics Department, Kyiv, Ukraine
Thesis title: “Low-background detector with $^{116}\text{CdWO}_4$ crystal scintillators to search for 2β decay of ^{116}Cd ”
- ❖ Bachelor of Science, physics, Sept. 2005 – June 2009
Taras Shevchenko National University of Kyiv, Faculty of Physics, Nuclear Physics Department, Kyiv, Ukraine
Thesis title: “Development of the low-background scintillating detector with CaMoO_4 crystal scintillators to search for neutrinoless double beta decay of ^{100}Mo ”

Research experience

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| May 2016 – present | Project Researcher, <i>Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo, Japan</i> |
| July 2015 – present | Junior scientific researcher, <i>Lepton Physics Department, Institute for Nuclear Research NASU, Kyiv, Ukraine</i> |

Aug. – Sept. 2016	Research activity (37 days) at the <i>Baksan Neutrino Observatory, Institute for Nuclear Research RAS, Neutrino, Russia</i> (Project “16K05371”)
December 2015	Research activity (14 days) at the <i>Centre de Sciences Nucléaires et de Sciences de la Matière (Orsay, France)</i> within the LUMINEU Collaboration (Project “95471S – LIA – CNRS”)
April 2012	Research activity at the <i>Laboratoire Souterrain de Modane (Modane, France)</i> within the LUMINEU and EDELWEISS Collaborations
Jan. 2012 – Dec. 2014	Research activity as hired personnel of <i>ISOTTA project (ISOTOpe Trace Analysis, http://isotta.in2p3.fr/)</i> , funded in the framework of the ASPERA 2nd Common Call for R&D Activities
Oct. 2010 – Sept. 2015	Research activity (20–50 days per year) at the <i>Laboratori Nazionali del Gran Sasso of the INFN (Assergi, Italy)</i> and the <i>Department of Physics of the University of Rome "La Sapienza" (Rome, Italy)</i> within the DAMA Collaboration (full time – 160 days)
July 2009 – June 2015	First-class engineer, <i>Lepton Physics Department, Institute for Nuclear Research NASU, Kyiv, Ukraine</i>
Sept. 2008 – Dec. 2008	Second-class technician, <i>Lepton Physics Department, Institute for Nuclear Research NASU, Kyiv, Ukraine</i>

Honors and Awards

- ❖ June 2013 – May 2015
Scholarship named after Yu.G.Zdesenko of the Institute for Nuclear Research NASU
- ❖ Jan. 2010 – June 2010
Scholarship of the National Nuclear Energy Generating Company of Ukraine “Energoatom” for successful students

Computer Skills

C++, ROOT, PAW, GEANT4, Origin, Octave, LabVIEW, Kompas 3D

Research Interests

- ❖ Development of scintillation detectors for low-background experiments (investigation of double beta decay and dark matter search)
- ❖ Spectrometric measurements by using scintillation counters and HPGe detectors
- ❖ Monte-Carlo simulation
- ❖ Data analysis and interpretation

Collaborations

- ❖ **KamLAND-PICO** (since 2016)
(*Dark Matter search using ultra-radiopure NaI(Tl) crystals*)
Development of the ultra-radiopure NaI(Tl) detectors; Calibration and background measurements with NaI(Tl) detectors in Kamioka mine; Development, construction and

measurements with the neutron and radon detectors; Monte Carlo simulation of the detectors using GEANT4 package.

❖ **KamLAND-Zen** (since 2016)

(Search for $0\nu 2\beta$ decay of ^{136}Xe using Xe-loaded liquid scintillator)

Mini-balloon construction and assembling; Energy calibration of the detector; Development and construction of the HPGe set-up; GEANT4 Monte Carlo simulation of the HPGe detector and measured samples; Selection of radiopure materials using low-background HPGe detector; Experiment shifts and on-site work.

❖ **LUMINEU** (since 2012)

(Development of ^{100}Mo -containing scintillating bolometers for $0\nu 2\beta$ decay search)

Monte Carlo simulation of the experiment; Development of the program to reject randomly coinciding events in scintillating bolometers; Study of optical, luminescence, scintillation and bolometric properties of ZnMoO_4 and Li_2MoO_4 crystals; Construction of the cryostat facility.

❖ **DAMA** (since 2010)

(Search for double beta decay of ^{116}Cd with enriched $^{116}\text{CdWO}_4$ crystal scintillators)

Development and assembling of the low-background detector with $^{116}\text{CdWO}_4$ crystals; Energy calibration of the detector; Study of optical and scintillation properties of $^{116}\text{CdWO}_4$ crystals; Development of the double-channel trigger unit for $^{116}\text{CdWO}_4$ detector.

❖ **AMoRE** (since 2009)

(Search for neutrinoless double beta decay of ^{100}Mo with $^{40}\text{Ca}^{100}\text{MoO}_4$ crystals)

Measurements of scintillation properties of CaMoO_4 samples; Development of the detector prototype based on CaMoO_4 scintillation crystal; Development of the trigger unit to separate slow CaMoO_4 scintillation signals from noises and signals of plastic scintillator.

Organization of scientific meetings

- ❖ Member of the organizing committee of the KamLAND Collaboration meeting 2018, *Toyama, Japan, 13–15 March 2018*
- ❖ Member of the local organizing committee of the International Workshop on Radiopure Scintillators (RPSCINT 2013), *Institute for Nuclear Research NASU, Kyiv, Ukraine, 17–20 September 2013*

Conferences

I have 24 talks and 8 posters at the following International Conferences, Meetings, Workshops and Schools:

1. IV International Conference on Particle Physics and Astrophysics, *Moscow, Russia, 22–26 October 2018*
2. KamLAND Collaboration Meeting, *Toyama, Japan, 13–15 March 2018*
3. Kavli IPMU 10th Anniversary Symposium, *Kashiwa, Japan, 16–18 October 2017*
4. KamLAND Collaboration Meeting, *Sendai, Japan, 19–21 September 2017*
5. Gordon Research Conference and Seminar in Particle Physics: Pushing the Frontiers of Particle Physics During the LHC Run II Era, *Hong Kong, China, 24–30 June 2017*

6. Invited seminar at the Research Center for Neutrino Science (RCNS) of Tohoku University, *Mozumi, Japan, 02 March 2016*
7. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 01–05 February 2016*
8. Luminescent processes in condensed state of matter (LUMCOS 2015), *Kharkov, Ukraine, 07–09 October 2015*
9. Invited seminar at the Laboratori Nazionali del Gran Sasso of the INFN, *Assergi, Italy, 10 September 2015*
10. French annual PhD student conference "Journes Des Doctorants 2015", *Orsay, France, 20–21 May 2015*
11. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 26–30 January 2015*
12. French annual PhD student conference "Journes Des Doctorants 2014", *Orsay, France, 9–10 April 2014*
13. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 27–31 January 2014*
14. 2nd LUMINEU general meeting, Centre de Sciences Nucléaires et de Sciences de la Matière (CSNSM), *Orsay, France, 13–14 January 2014*
15. International Workshop on Radiopure Scintillators (RPSCINT 2013), Institute for Nuclear Research NASU, *Kyiv, Ukraine, 17–20 September 2013*
16. Groupement de Recherche (GDR) Neutrino meeting, Pierre-and-Marie-Curie University (Paris VI), *Paris, France, 21–22 May 2013*
17. French annual PhD student conference "Journes des Doctorants 2013", *Orsay, France, 27–28 March 2013*
18. 1st LUMINEU general meeting, Centre de Sciences Nucléaires et de Sciences de la Matière (CSNSM), *Orsay, France, 04 February 2013*
19. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 28 January – 01 February 2013*
20. Workshop on results of the program of NAS Ukraine «Astroparticle physics (Kosmomikrofizyka-2)», Institute for Nuclear Research NASU, *Kyiv, Ukraine, 21–22 November 2012*
21. V International Pontecorvo Neutrino Physics School, *Alushta, Crimea, Ukraine, 6–16 September 2012*
22. The 4th International Conference on Current Problems in Nuclear Physics and Atomic Energy, *Kyiv, Ukraine, 3–7 September 2012*
23. 11th CNS International Summer School, Center for Nuclear Study (CNS), the University of Tokyo, *Wako, Saitama, Japan, 29 August – 04 September 2012*
24. French annual PhD student conference "Journes des Doctorants 2012", *Orsay, France, 5–6 April 2012*
25. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 24–27 January 2012*
26. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 25–28 January 2011*
27. International Student Workshop on Neutrinoless Double Beta Decay, *LNGS, Italy, 11–13 November 2010*

28. Carpathian Summer School of Physics 2010 Exotic Nuclei, Nuclear and Particle Astrophysics "From nuclei to stars", *Sinaia, Romania, 20 June – 03 July 2010*
29. The 3rd International Conference on Current Problems in Nuclear Physics and Atomic Energy, *Kyiv, Ukraine, 7–12 June 2010*
30. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 26–29 January 2010*
31. Trans-European School of High Energy Physics, *Zakopane, Poland, 6–16 July 2009*
32. Annual Scientific Conference, Institute for Nuclear Research NASU, *Kyiv, Ukraine, 20–23 January 2009*

Publications

I am co-author of 18 papers in refereed journals and 34 conference proceedings.

Papers in refereed journals

1. A. S. Barabash, P. Belli, R. Bernabei, F. Cappella, V. Caracciolo, R. Cerulli, D. M. Chernyak, F. A. Danevich, S. d'Angelo, A. Incicchitti, D. V. Kasperovych, V. V. Kobychyev, S. I. Konovalov, M. Laubenstein, D. V. Poda, O. G. Polischuk, V. N. Shlegel, V. I. Tretyak, V. I. Umatov, and Ya. V. Vasiliev.
[Final results of the Aurora experiment to study \$2\beta\$ decay of \$^{116}\text{Cd}\$ with enriched \$^{116}\text{CdWO}_4\$ crystal scintillators.](#)
Phys. Rev. D 98(2018)092007, 16 p.
2. A. Kozlov, D. Chernyak.
[A large area detector for thermal neutron flux measurements at the KamLAND site.](#)
Nucl. Instrum. Meth. A 903(2018)162-169
3. E. Armengaud, C. Augier, A.S.Barabash, J.W.Beeman, T.B.Bekker, F.Bellini, A.Benoît, L.Berge, T.Bergmann, J.Billard, R.S.Boiko, A.Broniatowski, V.Brudanin, P.Camus, S.Capelli, L.Cardani, N.Casali, A.Cazes, M.Chapellier, F.Charlieux, D.M.Chernyak, M. de Combarieu, N.Coron, F.A.Danevich, I.Dafinei, M. De Jesus, L.Devoyon, S. Di Domizio, L.Dumoulin, K.Eitel, C.Enss, F.Ferroni, A.Fleischmann, N.Foerster, J.Gascon, L.Gastaldo, L.Gironi, A.Giuliani, V.D.Grigorieva, M.Gros, L.Hehn, S.Herve, V.Humbert, N.V.Ivannikova, I.M.Ivanov, Y.Jin, A.Juillard, M.Kleifges, V.V.Kobychyev, S.I.Konovalov, F.Koskas, V.Kozlov, H.Kraus, V.A.Kudryavtsev, M.Laubenstein, H. Le Sueur, M.Loidl, P.Magnier, E.P.Makarov, M.Mancuso, P. de Marcillac, S.Marnieros, C.Marrache-Kikuchi, S.Nagorny, X-F.Navick, M.O.Nikolaichuk, C.Nones, V.Novati, E.Olivieri, L.Pagnanini, P.Pari, L.Pattavina, M.Pavan, B.Paul, Y.Penichot, G.Pessina, G.Piperno, S.Pirro, O.Plantevin, D.V.Poda, E.Queguiner, T.Redon, M.Rodrigues, S.Rozov, C.Rusconi, V.Sanglard, K.Schaffner, S.Scorza, V.N.Shlegel, B.Siebenborn, O.Strazzer, D.Tcherniakhovski, C.Tomei, V.I.Tretyak, V.I.Umatov, L.Vagneron, Ya.V.Vasiliev, M.Velazquez, M.Vignati, M.Weber, E.Yakushev, A.S.Zolotarova.
[Development of \$^{100}\text{Mo}\$ -containing scintillating bolometers for a high-sensitivity neutrinoless double-beta decay search.](#)
Eur. Phys. J. C 77(2017)785, 25 p.
4. D.M.Chernyak, F.A.Danevich, L.Dumoulin, A.Giuliani, M.Mancuso, P. de Marcillac, S.Marnieros, C.Nones, E. Olivieri, D.V.Poda, V.I.Tretyak.
[Rejection of randomly coinciding events in \$\text{Li}_2^{100}\text{MoO}_4\$ scintillating bolometers using light detectors based on the Neganov-Luke effect.](#)
Eur. Phys. J. C 77(2017)3, 7 p.
5. P.Belli, R.Bernabei, V.B.Brudanin, F.Cappella, V.Caracciolo, R.Cerulli, D.M.Chernyak, F.A.Danevich, S. d'Angelo, A. Di Marco, A.Incichitti, M.Laubenstein, V.M.Mokina, D.V.Poda, O.G.Polischuk, V.I.Tretyak, I.A.Tupitsyna.

- [Search for \$2\beta\$ decay of \$^{106}\text{Cd}\$ with an enriched \$^{106}\text{CdWO}_4\$ crystal scintillator in coincidence with four HPGe detectors.](#)
Phys. Rev. C 93(2016)045502, 9 p.
6. D.M.Chernyak, F.A.Danevich, V.Ya.Degoda, A.Giuliani, I.M.Ivanov, Ya.P.Kogut, H.Kraus, B.N.Kropivnyansky, E.P.Makarov, M.Mancuso, P. de Marcillac, V.B.Mikhailik, V.M.Mokina, I.M.Moroz, S.G.Nasonov, O.Plantevin, D.V.Poda, V.N.Shlegel, M.Tenconi, V.I.Tretyak, M.Velazquez, V.N.Zhdankov.
[Effect of tungsten doping on \$\text{ZnMoO}_4\$ scintillating bolometer performance.](#)
Optical Materials 49(2015)67–74.
7. E.Armengaud, Q.Arnaud, C.Augier, A.Benoit, A.Benoit, L.Berge, R.S.Boiko, T.Bergmann, J.Blumer, A.Broniatowski, V.Brudanin, P.Camus, A.Cazes, M.Chapellier, F.Charlieux, D.M.Chernyak, N.Coron, P.Coulter, F.A.Danevich, T. de Boissiere, R.Decourt, M. De Jesus, L.Devoyon, A.-A.Drillien, L.Dumoulin, K.Eitel, C.Enss, D. Filosofov, A.Fleischmann, N.Foerster, N.Fourches, J.Gascon, L.Gastaldo, G.Gerbier, A.Giuliani, D.Gray, M.Gros, L.Hehn, S.Henry, S.Herve, G.Heuermann, V.Humbert, I.M.Ivanov, A.Juillard, C.Kefelian, M.Kleifges, H.Kluck, V.V.Kobychev, F.Koskas, V.Kozlov, H.Kraus, V.A.Kudryavtsev, H. Le Sueur, M.Loidl, P.Magnier, E.P.Makarov, M.Mancuso, P. de Marcillac, S.Marnieros, C.Marrache-Kikuchi, A.Menshikov, S.G.Nasonov, X.-F.Navick, C.Nones, E.Olivieri, P.Pari, B.Paul, Y.Penichot, G.Pessina, M.C.Piro, O.Plantevin, D.V.Poda, T.Redon, M.Robinson, M.Rodrigues, S.Rozov, V.Sanglard, B.Schmidt, S.Scorza, V.N.Shlegel, B.Siebenborn, O.Strazzer, D.Tcherniakhovski, M.Tenconi, L.Torres, V.I.Tretyak, L.Vagneron, Ya.V.Vasiliev, M.Velazquez, O.Viraphong, R.J.Walker, M.Weber, E.Yakushev, X.Zhang, V.N.Zhdankov.
[Development and underground test of radiopure \$\text{ZnMoO}_4\$ scintillating bolometers for the LUMINEU \$0\nu 2\beta\$ project.](#)
JINST 10(2015)P05007, 19 p.
8. L.Berge, R.S.Boiko, M.Chapellier, D.M.Chernyak, N.Coron, F.A.Danevich, R.Decourt, V.Ya.Degoda, L.Devoyon, A.Drillien, L.Dumoulin, C.Enss, A.Fleischmann, L.Gastaldo, A.Giuliani, M.Gros, S.Herve, V.Humbert, I.M.Ivanov, V.V.Kobychev, Ya.P.Kogut, F.Koskas, M.Loidl, P.Magnier, E.P.Makarov, M.Mancuso, P. de Marcillac, S.Marnieros, C.Marrache-Kikuchi, S.G.Nasonov, X.F.Navick, C.Nones, E.Olivieri, B.Paul, Y.Penichot, G.Pessina, O.Plantevin, D.V.Poda, T.Redon, M.Rodrigues, V.N.Shlegel, O.Strazzer, M.Tenconi, L.Torres, V.I.Tretyak, Ya.V.Vasiliev, M.Velazquez, O.Viraphong, V.N.Zhdankov.
[Purification of molybdenum, growth and characterization of medium volume \$\text{ZnMoO}_4\$ crystals for the LUMINEU program.](#)
JINST 09(2014)P06004, 18 p.
9. A.S.Barabash, D.M.Chernyak, F.A.Danevich, A.Giuliani, I.M.Ivanov, E.P.Makarov, M.Mancuso, S.Marnieros, S.G.Nasonov, C.Nones, E.Olivieri, G.Pessina, D.V.Poda, V.N.Shlegel, M.Tenconi, V.I.Tretyak, Ya.V.Vasiliev, M.Velazquez, V.N.Zhdankov.
[Enriched \$\text{Zn}^{100}\text{MoO}_4\$ scintillating bolometers to search for \$0\nu 2\beta\$ decay of \$^{100}\text{Mo}\$ with the LUMINEU experiment.](#)
Eur. Phys. J. C 74(2014)3133, 7 p.
10. D.M.Chernyak, F.A.Danevich, A.Giuliani, M.Mancuso, C.Nones, E.Olivieri, M.Tenconi, V.I.Tretyak.
[Rejection of randomly coinciding events in \$\text{ZnMoO}_4\$ scintillating bolometers.](#)
Eur. Phys. J. C 74(2014)2913, 6 p.
11. D.M.Chernyak, F.A.Danevich, V.Ya.Degoda, I.M.Dmitruk, F.Ferri, E.N.Galashov, A.Giuliani, I.M.Ivanov, V.V.Kobychev, M.Mancuso, S.Marnieros, V.M.Mokina, C.Nones, E.Olivieri, G.Pessina, C.Rusconi, V.N.Shlegel, O.P.Stanovyi, M.Tenconi, V.I.Tretyak, I.A.Tupitsyna.
[Optical, luminescence and thermal properties of radiopure \$\text{ZnMoO}_4\$ crystals used in scintillating bolometers for double beta decay search.](#)
Nucl. Instrum. Meth. A 729(2013)856-863.

12. D.M.Chernyak, F.A.Danevich, A.Giuliani, E.Olivieri, M.Tenconi, V.I.Tretyak.
[Random coincidence of \$2\nu 2\beta\$ decay events as a background source in bolometric \$0\nu 2\beta\$ decay experiments.](#)
Eur. Phys. J. C 72(2012)1989, 6 p.
13. P.Belli, R.Bernabei, R.S.Boiko, V.B.Brudanin, F.Cappella, V.Caracciolo, R.Cerulli, D.M.Chernyak, F.A.Danevich, S. d' Angelo, E.N.Galashov, A.Incicchitti, V.V.Kobychev, M.Laubenstein, V.M.Mokina, D.V.Poda, R.B.Podvianuk, O.G.Polischuk, V.N.Shlegel, Yu.G.Stenin, J.Suhonen, V.I.Tretyak, Ya.V.Vasiliev.
[Search for double- \$\beta\$ decay processes in \$^{106}\text{Cd}\$ with the help of a \$^{106}\text{CdWO}_4\$ crystal scintillator.](#)
Phys. Rev. C 85(2012)044610, 12 p.
14. A.S.Barabash, P.Belli, R.Bernabei, R.S.Boiko, F.Cappella, V.Caracciolo, D.M.Chernyak, R.Cerulli, F.A.Danevich, M.L. Di Vacri, A.E.Dossovitskiy, E.N.Galashov, A.Incicchitti, V.V.Kobychev, S.I.Konovalov, G.P.Kovtun, V.M.Kudovbenko, M.Laubenstein, A.L.Mikhlin, S.Nisi, D.V.Poda, R.B.Podvianuk, O.G.Polischuk, A.P.Shcherban, V.N.Shlegel, D.A.Solopikhin, Yu.G.Stenin, V.I.Tretyak, V.I.Umatov, Ya.V.Vasiliev, V.D.Virich.
[Low background detector with enriched \$^{116}\text{CdWO}_4\$ crystal scintillators to search for double \$\beta\$ decay of \$^{116}\text{Cd}\$.](#)
JINST 06(2011)P08011, 24 p.
15. P.Belli, R.Bernabei, R.S.Boiko, V.B.Brudanin, N.Bukilic, R.Cerulli, D.M.Chernyak, F.A.Danevich, S. d' Angelo, V.Ya.Degoda, A.E.Dossovitskiy, E.N.Galashov, Yu.A.Hyzhnyi, S.V.Ildyakov, A.Incicchitti, V.V.Kobychev, O.S.Kolesnyk, G.P.Kovtun, V.M.Kudovbenko, J.R. de Laeter, A.L.Mikhlin, S.S.Nagorny, S.G.Nedilko, A.S.Nikolaiko, S.Nisi, D.V.Poda, R.B.Podvianuk, O.G.Polischuk, D.Prospieri, A.P.Shcherban, V.P.Shcherbatskiy, V.N.Shlegel, D.A.Solopikhin, Yu.G.Stenin, V.I.Tretyak, Ya.V.Vasiliev, V.D.Virich.
[Development of enriched \$^{106}\text{CdWO}_4\$ crystal scintillators to search for double \$\beta\$ decay processes in \$^{106}\text{Cd}\$.](#)
Nucl. Instrum. Meth. A 615(2010)301-306.
16. H.J.Kim, A.N.Annenkov, R.S.Boiko, O.A.Buzanov, D.M.Chernyak, J.H.Cho, F.A.Danevich, A.E.Dossovitskiy, Gul Rooh, U.K.Kang, M.J.Kim, S.C.Kim, S.K.Kim, Y.D.Kim, V.V.Kobychev, V.N.Kornoukhov, M.B.Kosmyna, S.J.Lee, J.I.Lee, J.H.Lee, S.S.Myung, B.P.Nazarenko, A.S.Nikolaiko, R.B.Podvianuk, V.M.Puzikov, A.N.Shekhovtsov, J.H.So, I.Solskii, V.I.Tretyak, A.V.Vereshnikova.
[Neutrino-less double beta decay experiment using \$\text{Ca}^{100}\text{MoO}_4\$ scintillation crystals.](#)
IEEE Trans. Nucl. Sci. 57(2010)1475-1480.
17. R.B.Podvianuk, V.V.Kobychev, D.N.Chernyak.
[Spectrometer for slow scintillation detectors with pulses shape digitizing.](#)
J. Nucl. Phys. At. En. 10(2009)318-325 (in Russian).
18. F.A.Danevich, D.M.Chernyak, A.M.Dubovik, B.V.Grinyov, S.Henry, H.Kraus, V.M.Kudovbenko, V.B.Mikhailik, L.L.Nagornaya, R.B.Podvianuk, O.G.Polischuk, I.A.Tupitsyna, Yu.Ya.Vostretsov.
 [\$\text{MgWO}_4\$ – A new crystal scintillator.](#)
Nucl. Instrum. Meth. A 608(2009)107-115.

Conference proceedings

1. O.G.Polischuk, A.S.Barabash, P.Belli, R.Bernabei, F.Cappella, V.Caracciolo, R.Cerulli, D.M.Chernyak, F.A.Danevich, S.d' Angelo, A.Incicchitti, D.V.Kasperovych, V.V.Kobychev, S.I.Konovalov, M.Laubenstein, V.M.Mokina, D.V.Poda, V.N.Shlegel, V.I.Tretyak, V.I.Umatov, Ya.V.Vasiliev.
[Investigation of \$2\beta\$ decay of \$^{116}\text{Cd}\$ with the help of enriched \$^{116}\text{CdWO}_4\$ crystal scintillators.](#)
AIP Conf. Proc. 1894(2017)02018, 4 p.
2. V.I.Tretyak, P.Belli, R.Bernabei, V.B.Brudanin, F.Cappella, V.Caracciolo, R.Cerulli, D.M.Chernyak, F.A.Danevich, S. d' Angelo, A. Di Marco, A.Incicchitti, M.Laubenstein,

V.M.Mokina, D.V.Poda, O.G.Polischuk, I.A.Tupitsyna.

[New limits on \$2\beta\$ processes in \$^{106}\text{Cd}\$.](#)

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