Curriculum Vitae

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Current Position
Post-doctoral fellow in experimental physics in the DAMA group at Roma Section of Istituto Nazionale di Fisica Nucleare (INFN)
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Personal data
I was born in Krasyliv, Ukraine on June 24, 1984.

Education

1998-2000	Special course "Accounting", Kharkov Institute of Economics and Finances. Qualification: Bookkeeper.
2001-2007	Physical and Mathematical Faculty, National Technological University of Ukraine "Kyiv Polytechnic Institute". Degree: master of physics. Qualification: physicist, teacher in physics and information science. Title of diploma work: "Development of scintillation detectors with high energy resolution for double beta decay experiments".
2007-2010	Postgraduate studies in Institute for Nuclear Research, Kyiv, Ukraine. Degree: PhD in Nuclear, Particle and High energy Physics. Thesis title: "Scintillation detectors based on molybdate and tungstate crystals for double beta-decay search".

Professional Employment

2006-2008	Research engineer, Lepton Physics Department, Institute for Nuclear Research, Kyiv, Ukraine.
2008-2010	Engineer, Lepton Physics Department, Institute for Nuclear Research, Kyiv, Ukraine.
2010-2013	Leading engineer, Lepton Physics Department, Institute for Nuclear Research, Kyiv, Ukraine.
2013-up to now	Junior Scientific Researcher, Lepton Physics Department, Institute for Nuclear Research, Kyiv, Ukraine.
2015-up to now	Post-Doc at INFN – Roma section (grant for non-Italian citizen), Italy.

Organisation of scientific meetings

2008 secretary, Workshop on Radiopure Scintillators for EURECA, RPScint 2008, 9-10 September 2008, Kyiv, Ukraine (22 participants);

2008 member of the organizing committee, Workshop on results of the program of NASU «Astroparticle physics (Kosmomikrofizyka)», 20 November 2008, Kyiv, Ukraine (25 participants);

2009 secretary, 2nd International Workshop on Radiopure Scintilla tors for EURECA, RPScint 2009, 22-23 September 2009, Kyiv, Ukraine (18 participants);

2012 member of the organizing committee, Workshop on results of the program of NASU «Astroparticle physics (Kosmomikrofizyka-2)», 21-22 November 2012, Kyiv, Ukraine (28 participants);

2013 member of the organizing committee, International Workshop on Radiopure Scintillators, RPSCINT 2013, 17-20 September 2013, Kyiv, Ukraine (30 participants).

Institutional responsibilities

2012 - 2017: Member of the Council of Young Scientists of the Institute for Nuclear Research of the NASU.

Honours and Awards

- October 2009 - September 2011: Scholarship of the President of Ukraine;
- April 2012 - March 2013: Corresponding Member of the NASU G.D. Latyshev scholarship (experimental researches) for Young Scientists of the Institute for Nuclear Research of the NASU;
- June 2013 - May 2014: Corresponding Member of the NASU Yu.G. Zdesenko scholarship (experimental researches) for Young Scientists of the Institute for Nuclear Research of the NASU;
- October 2014 - September 2016: Scholarship of the NASU.

Informatic skills: PAW, ROOT, MatLab, Origin, GEANT, C++, Office.

Language skills: Ukrainian (native), Russian (native), English (upper-intermediate), Italian (pre-intermediate), French (elementary), Polish (elementary).

Reports at conferences and meetings

- Annual Conference of Institute for Nuclear Research, Kyiv, Ukraine – *January 2007, 2008, 2009, 2012, 2013, 2014, 2015.*
- International Conference of Young Scientists and Post-Graduate Students "IEP-2017", Uzhgorod, Ukraine – *May 2007, 2013.*
- French-Ukrainian Summer School of Particle Physics, Mukachevo, Ukraine – *July 9-14, 2007.*
- The 2nd International Conference "Current Problems in Nuclear Physics and Atomic Energy", Kyiv, Ukraine – *June 09-15, 2008.*
- International Workshop on Radiopure Scintillators for EURECA, RPScint 2008, Kyiv, Ukraine – *September 9-10, 2008.*
- The 2nd International Workshop on Radiopure Scintillators for EURECA (RPScint'2009), INR Kyiv, Ukraine – *September 22-23, 2009.*
- The Humboldt-Colloquium "Humboldt Cosmos: Science and Society" HCS2-Kiev2009, Kiev, Ukraine – *November 19-22, 2009.*
- International Conference "Astronomy and Space Physics in Taras Shevchenko Nat. University of Kyiv", Kyiv, Ukraine – *May 24-28, 2010.*
- The 3rd International Conference "Current Problems in Nuclear Physics and Atomic Energy", Kyiv, Ukraine — *June 07-12, 2010.*

- School-workshop of young scientists "Scintillation Processes and Materials for Registration of Ionization Radiation", Kharkiv, Ukraine — *September, 2011, 2014.*
- AMoRE meeting, Kyiv, Ukraine – *October 27-28, 2011*.
- Workshop on results of the Astroparticle Physics (Project Kosmomikrofizyka-2) of the National Academy of Sciences of Ukraine, Kyiv, Ukraine – *November 21-22, 2012*.
- International School on Nuclear Physics and Energy for Young Scientists, Alushta, Ukraine – *June 3-7, 2013.*
- International School on Astroparticle Physics, Laboratorio Subterraneo de Canfrans, Spain – *July 14-23, 2013.*
- International Workshop on Radiopure Scintillators – RPSCINT-2013 – Institute for Nuclear Research (National Academy of Sciences of Ukraine), Kyiv, Ukraine – *September 17-20, 2013.*
- International Conference on Oxide Materials for Electronic Engineering OMEE'2014, Lviv, Ukraine – *May 26-30, 2014.*
- 10^{th} AMoRE collaboration meeting, YangYang, Korea – *August 26-28, 2015.*
- Invited talk at LNGS, Italy — *December 03, 2015*.
- 5^{th} Int. Conf. "Engineering od Scint. Mat. and Radiation Technologies" ISMART'2016, Minsk, Belarus – *September 26-30, 2016.*

Research activity

Search for 2β decay and dark matter, solar axions, R&D of scintillation detectors and low radioactive technique for low counting experiments, participation in small scale experiments in the Laboratori Nazionali del Gran Sasso of INFN in the frame of the Agreements about scientific collaboration between of the DAMA collaboration and the group from the Lepton Physics Department of the Institute for Nuclear Research, Kyiv.

Main scientific achievements:

- Development and study (optical, scintillation properties and radiopurity) of many inorganic crystal scintillators (mainly, tungstates and molybdates) and organic scintillators (solid and liquid) as detectors to search for double beta decay and dark matter particles.
- Development of isotopically enriched $^{106}CdWO_4$, $^{116}CdWO_4$ and $^{40}Ca^{100}MoO_4$ crystal scintillators to search for double beta processes.
- Investigation of the properties of inorganic crystal scintillators ($CaWO_4$, $CaMoO_4$, $ZnWO_4$, $MgWO_4$, $PbWO_4$, $PbMoO_4$, $ZnMoO_4$) as detectors to search for double beta decay and dark matter at low temperature.
- Optimization of light collection from crystal scintillators ($CaWO_4$, $ZnWO_4$) for cryogenic experiments for search for dark matter and double beta decay.
- The strongest half-life limits relative to the double beta processes for ^{64}Zn, ^{70}Zn, ^{106}Cd, ^{108}Cd, ^{114}Cd, ^{116}Cd, ^{180}W, ^{186}W.
- Investigation $^{116}CdWO_4$ crystal scintillator ($2\nu2\beta$ decay of ^{116}Cd was observed with the highest to-date accuracy, while the new (currently the world best) limit on $0\nu2\beta$ mode was set).
- Development and study of crystal scintillators and materials with lanthanides (CeO_2, Nd_2O_3 and Gd_2O_3) as detectors to search for double beta decay.
- New limit on the mass of ^{7}Li solar axions.

I am co-author of more than 75 scientific publications, most important are listed below:

1. F.A. Danevich, S.K. Kim, H.J. Kim, A.B. Kostezh, V.V. Kobychev, B.N. Kropivyansky, M. Laubenstein, V.M. Mokina, S.S. Nagorny, A.S. Nikolaiko, S. Nisi, D.V. Poda, V.I. Tretyak, S.A. Voronov. Archaeological lead findings in the Ukraine, AIP Conf. Proc. 897(2007)125-130.

2. L.Bardelli, M.Bini, P.G.Bizzeti, F.A.Danevich, T.F.Fazzini, N.Krutyak, V.V.Kobychev, P.R.Maurenzig, V.M.Mokina, S.S.Nagorny, M.Pashkovskii, D.V.Poda, V.I.Tretyak, S.S.Yurchenko. Pulse-shape discrimination with $PbWO_4$ crystal scintillators, Nucl. Instrum. Meth. Phys. Res. A 584(2008)129-134.
3. M.Bongrand (on behalf of the SuperNEMO collaboration). The BiPo detector for ultralowradioactivity measurements, Electronic preprint physics/0702070 - 7 p.
4. A.N. Annenkov, O.A. Buzanov, F.A. Danevich, A.Sh. Georgadze, S.K. Kim, H.J. Kim, Y.D. Kim, V.V. Kobychev, V.N. Kornoukhov, M. Korzhik, J.I. Lee, O. Missevitch, V.M. Mokina, S.S. Nagorny, A.S. Nikolaiko, D.V. Poda, R.B. Podviyanuk, D.J. Sedlak, O.G. Shkulkova, J.H. So, I.M. Solsky, V.I. Tretyak, S.S. Yurchenko. Development of $CaMoO_4$ crystal scintillators for double beta decay experiment with ^{100}Mo, Nucl. Instrum. Meth. Phys. Res. A 584(2008)334-345.
5. L.L.Nagornaya, A.M.Dubovik, Yu.Ya.Vostretsov, B.V.Grinyov, F.A.Danevich, K.A.Katrunov, V.M.Mokina, G.M.Onishchenko, D.V.Poda, N.G.Starzhinskiy, I.A.Tupitsyna. Growth of $ZnWO_4$ crystal scintillators for high sensitivity 2β experiments, IEEE Trans. Nucl. Sci. 55(2008)1469-1472.
6. H.Ohsumi (on behalf of NEMO and SuperNEMO Collaboration). SuperNEMO project, J. Phys.: Conf. Ser. 120(2008)052054, 3 p.
7. P.Belli, R.Bernabei, R.Cerulli, F.A.Danevich, A. d'Angelo, V.I.Goriletsky, B.V. Grinyov, A.Incicchitti, V.V.Kobychev, M.Laubenstein, V.M. Mokina, S.S.Nagorny, S.Nisi, D.Prosperi, O.G.Shkulkova, V.I.Tretyak. ^{7}Li solar axions: Preliminary results and feasibility studies. Nucl. Phys. A 806(2008)388-397.
8. P.Belli, R.Bernabei, F.Cappella, R.Cerulli, F.A.Danevich, S. d'Angelo, A.Incicchitti, V.V.Kobychev, S.S.Nagorny, F.Nozzoli, V.M.Mokina, D.V.Poda, D.Prosperi, V.I.Tretyak. Search for double-β decay processes in ^{108}Cd and ^{114}Cd with the help of the low-background $CdWO_4$ crystal scintillator. Eur. Phys. J. A 36(2008)167-170.
9. R.Bernabey, V.D.Virich, B.V.Grinyov, F.A.danevich, G.P.Kovtun, V.M.Mokina, L.L.Nagornaya, S.S.Nagornyy, S.Nisi, D.A.Solopikhin, V.I.Tretyak, A.P.Shcherban. Production of high-pure Cd and ^{106}Cd for $CdWO_4$ and $^{106}CdWO_4$ scintillators. Metallofizika I Noveishije Tekhnologii 30(2008)477-486 (in Russian).
10. L.L.Nagornaya, A.M.Dubovik, Yu.Ya.Vostretsov, B.V.Grinyov, F.A.Danevich, K.A.Katrunov, V.M.Mokina, G.M.Onishchenko, D.V.Poda, N.G.Starzhinskiy, I.A.Tupitsyna. Growth of $ZnWO_4$ crystal scintillators for high sensitivity 2β experiments. IEEE Trans. Nucl. Sci. 55(2008)1469-1472.
11. L.L.Nagomaya, F.A.Danevich, A.M.Dubovik, B.V.Grinyov, S.Henry, V.Kapustyanyk, H.Kraus, D.Poda, V.M.Mokina, V.B.Mikhailik, M.Panasyuk, O.G.Polischuk, V.Rudyk, V.Tsybulskyi, LA.Tupitsyna, Yu.Ya.Vostretsov. Oxide scintillators to search for dark matter and double beta decay. IEEE Nucl. Sci. Symp. 2008, pp. 3266-3271.
12. H.Kraus, E.Armengaud, M.Bauer, I.Bavykina, A.Benoit, A.Bento, J.Blumer, L.Bornschein, A.Broniatowski, G.Burghart, P.Camus, A.Chantelauze, M.Chapellier, G.Chardin, C.Ciemniak, C.Coppi, N.Coron, O.Crauste, F.A.Danevich, M. De Jesus, P. de Marcillac, E.Daw, X.Defay, G.Deuter, J.Domange, P. Di Stefano, G.Drexlin, L.Dumoulin, K.Eitel, F. von Feilitzsch, D.Filosofov, P.Gandit, E.Garcia, J.Gascon, G.Gerbier, J.Gironnet, H.Godfrin, S.Grohmann, M.Gros, M.Hannewald, D.Hauff, F.Haug, S.Henry, P.Huff, J.Imber, S.Ingleby, C.Isaila, J.Jochum, A.Juillard, M.Kiefer, M.Kimmerle, H.Kluck, V.V.Kobychev, V.Kozlov, V.A.Kudryavtsev, T.Lachenmaier, J.-C.Lanfranchi, R.F.Lang, P.Loaiza, A.Lubashevsky, M.Malek, S.Marnieros, R.McGowan, V.Mikhailik, V.M.Mokina, A.Monfardini, X. -F.Navick, T.Niinikoski, A.S.Nikolaiko, L.Oberauer, E.Olivieri, Y.Ortigoza, E.Pantic, P.Pari, B.Paul, G.Perinic, F.Petricca, S.Pfister, C.Pobes, D. V.Poda, R.B.Podviyanuk, O.G.Polischuk, W.Potzel, F.Probst, J.Puimedon, M.Robinson, S.Roth, K.Rottler, S.Rozov, C.Sailer, A.Salinas, V.Sanglard, M.L.Sarsa, K.Schaffner, S.Scholl, S.Scorza, A.Smolnikov, W.Seidel, S.Semikh, M.Stern, L.Stodolsky, M.Teshima, V.Tomasello, A.Torrento, L.Torres, V.I.Tretyak, J.A.Villar, M.A.Verdier, I.Usherov, J.Wolf, E.Yakushev. EURECA – The Future of Cryogenic Dark Matter Detection in Europe. Proc. of Science: PoS (idm2008) 013, 7 p.
13. P.Belli, R.Bernabei, R.S.Boiko, V.B.Brudanin, R.Cerulli, F.A.Danevich, S. d'Angelo, A.E.Dossovitskiy, B.V.Grinyov, A.Incicchitti, V.V.Kobychev, G.P.Kovtun, A.L.Mikhlin, V.M.Mokina, L.L.Nagornaya, S.S.Nagorny, S.Nisi, R.B.Podviyanyuk, D.Prosperi, D.A.Solopikhin, V.I.Tretyak, I.A.Tupitsyna, A.P.Shcherban, V.D.Virich. Development of enriched cadmium tungstate crystal scintillators to search for double beta decay processes in ^{106}Cd. Preprint ROM2F/2008/17–Roma 2 University, 2008, 9 p.

14. P.Belli, R.Bernabei, F.Cappella, R.Cerulli, F.A.Danevich, B.V.Grinyov, A.Incicchitti, V.V.Kobychev, V.M.Mokina, S.S.Nagorny, L.L.Nagornaya, S.Nisi, F.Nozzoli, D.V.Poda, D.Prosperi, V.I.Tretyak, S.S.Yurchenko. Search for double beta decay of zinc and tungsten with low-background $ZnWO_4$ crystal scintillators. Nucl. Phys. A 826(2009)256-273.
15. H.Kraus, F.A.Danevich, S.Henry, V.V.Kobychev, V.B.Mikhailik, V.M.Mokina, S.S.Nagorny, O.G.Polischuk, V.I.Tretyak. $ZnWO_4$ scintillators for cryogenic dark matter experiments. Nucl. Instrum. Meth. A 600(2009)594-598.
16. F.A.Danevich, S.K.Kim, H.J.Kim, Y.D.Kim, V.V.Kobychev, A.B.Kostezh, B.N.Kropivyansky, M.Laubenstein, V.M.Mokina, S.S.Nagorny, A.S.Nikolaiko, S.Nisi, D.V.Poda, V.I.Tretyak, S.A.Voronov. Ancient Greek lead findings in Ukraine. Nucl. Instrum. Meth. A 603(2009)328-332.
17. 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.Podviyanuk, O.G.Polischuk, I.A.Tupitsyna, Yu.Ya.Vostretsov. $MgWO_4$ – A new crystal scintillator. Nucl. Instrum. Meth. A 608(2009)107-115.
18. L.L.Nagornaya, B.V.Grinyov, A.M.Dubovik, Yu.Ya.Vostretsov, I.A.Tupitsyna, F.A.Danevich, V.M.Mokina, S.S.Nagorny, O.G.Shkulkova, H.Kraus, V.B.Mikhailik. Large volume $ZnWO_4$ crystal scintillators with excellent energy resolution and low background. IEEE Trans. Nucl. Sci. 56(2009)994-997.
19. L.L.Nagornaya, F.A.Danevich, A.M.Dubovik, B.V.Grinyov, S.Henry, V.Kapustyanyk, H.Kraus, D.V.Poda, V.M.Kudovbenko, V.B.Mikhailik, M.Panasyuk, O.G.Polischuk, V.Rudyk, V.Tsybulskyi, I.A.Tupitsyna, Yu.Ya.Vostretsov. Tungstate and molybdate scintillators to search for dark matter and double beta decay. IEEE Trans. Nucl. Sci. 56(2009)2513-2518.
20. N.V.Bashmakova, F.A.Danevich, V.Ya.Degoda, I.M.Dmitruk, V.M.Kudovbenko, S.Yu.Kutovyi, V.V.Mikhailin, S.S.Nagorny, A.S.Nikolaiko, S.Nisi, A.A.Pavlyuk, S.Pirro, A.E.Savon, S.F.Solodovnikov, Z.A.Solodovnikova, D.A.Spassky, V.I. Tretyak, S.M.Vatnik, E.S. Zolotova. $Li_2Zn_2(MoO_4)_3$ crystal as a potential detector for ^{100}Mo 2β-decay search. Functional Materials 16(2009)266-274.
21. O.P.Barinova, F.A.Danevich, V.Ya.Degoda, S.V.Kirsanova, V.M.Kudovbenko, S.Pirro, V.I.Tretyak. First test of Li_2MoO_4 crystal as a cryogenic scintillating bolometer. Nucl. Instrum. Meth. A 613(2010)54-57.
22. 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.Podviyanyuk, O.G.Polischuk, D.Prosperi, A.P.Shcherban, V.P.Shcherbatskyi, V.N.Shlegel, D.A.Solopikhin, Yu.G.Stenin, V.I.Tretyak, Ya.V.Vasiliev, V.D.Virich. Development of enriched $^{106}CdWO_4$ crystal scintillators to search for double β decay processes in ^{106}Cd. Nucl. Instrum. Meth. A 615(2010)301-306.
23. R.Bernabei, P.Belli, F.Cappella, R.Cerulli, F.A.Danevich, B.V.Grinyov, A.Incicchitti, V.V.Kobychev, V.M.Mokina, S.S.Nagorny, L.L.Nagornaya, S.Nisi, F.Nozzoli, D.V.Poda, D.Prosperi, V.I.Tretyak, S.S.Yurchenko. Search for double beta decay of zinc and tungsten with low background $ZnWO_4$ crystal scintillators. J. Phys.: Conf. Ser. 202(2010)012038, 4 p.
24. H.Kraus, E.Armengaud, C.Augier, M.Bauer, N.Bechtold, A.Benoit, A.Bento, L.Berge, J.Blümer, L.Bornschein, A.Broniatowski, A.Brown, Ph.Camus, B.Censier, A.Chantelauze, M.Chapellier, G.Chardin, Ch.Ciemniak, S.Collin, N.Coron, Ph.Coulter, A.Cox, O.Crauste, F.A.Danevich, E.Daw, M. de Jésus, P. de Marcillac, G.Deuter, J.Domange, G.Drexlin, L.Dumoulin, K.Eitel, F. v. Feilitzsch, D.Filosofov, Ph.Gandit, E.García, J.Gascon, G.Gerbier, J.Gironnet, H.Godfrin, P.Graffin, S.Grohmann, M.Gros, D.Hauff, S.Henry, P.Huff, S.Ingleby, Ch.Isaila, J.Jochum, A.Juillard, M.Kiefer, C.Kikuchi, M.Kimmerle, H.Kluck, V.V.Kobychev, V.Kozlov, V.M.Kudovbenko, V.A.Kudryavtsev, J.-C.Lanfranchi, P.Loaiza, A.Lubashevsky, S.Marnieros, M.-L.Martinez, V.M.Mikhailik, A.Monfardini, S.S.Nagorny, X.-F.Navick, H.Nieder, T.Niinikoski, A.S.Nikolaiko, E.Olivieri, Y.Ortigoza, P.Pari, L.Pattavina, B.Paul, F.Petricca, M.Pfeiffer, S.Pfister, C.Pobes, D.V.Poda, R.B.Podviyanuk, O.G.Polischuk, P.Ponsot, W.Potzel, F.Pröbst, J.Puimedón, M.Robinson, T.Rolón, S.Roth, K.Rottler, S.Rozov, Ch.Sailer, A.Salinas, V.Sanglard, M. -L.Sarsa, K.Schäffner, J.Schmaler, B.Schmidt, S.Schol, S.Scorza, W.Seidel, S.Semikh, M. v. Sivers, L.Stodolsky, Ch.Strandhagen, R.Strauss, Ph.Sullivan, M.Teshima, A.Torrento, L.Torres, V.I.Tretyak, I.Usherov, Ph.Veber, M.Velázquez, J.A.Villar, R.Walker, J.Wolf, E.Yakushev. EURECA. Proc. of Science PoS(IDM2010)109, 8 p.

25. F.A.Danevich, B.V.Grinyov, S.Henry, M.B.Kosmyna, H.Kraus, N.Krutyak, V.M.Kudovbenko, V.B.Mikhailik, L.L.Nagornaya, B.P.Nazarenko, A.S.Nikolaiko, O.G.Polischuk, V.M.Puzikov, A.N.Shekhovtsov, V.I.Tretyak, Yu.Ya.Vostretsov. Feasibility study of $PbWO_4$ and $PbMoO_4$ crystal scintillators for cryogenic rare events experiments. Nucl. Instrum. Meth. A 622(2010)608-613.
26. 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.Podviyanuk, 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 $^{116}CdWO_4$ crystal scintillators to search for double β decay of ^{116}Cd. JINST 06(2011)P08011, 24 p.
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