

Curriculum vitae

Personal Details:

Name: Itamar Israeli (previous surname: Israelashvili)
Address: Zatotzky St. 2, Mazkeret Batiya ID: 035701911
Data of birth: 21/5/79



Military service:

2003-2006 Standing army as a captain.
2000-2003 Compulsory service.

Education:

2011- 2017 PhD from Weizmann Institute of Science, faculty of physics, department of particle physics and astrophysics. Research title: "A novel liquid-Xenon detector concept for combined fast- neutron and gamma imaging and spectroscopy".
2001-2006 M.Sc degree from the Ben-Gurion University of the Negev, faculty of natural sciences, physics department.
Excellence for the thesis: "Assembling of a Positron Lifetime Measurement System and the Study of Damage Evolution in Neutron Irradiated Sapphire (α -Al₂O₃)".
1997-2000 B.Sc degree from Bar-Ilan University, faculty of natural sciences, physics department.

Occupation experience:

2006-present Physicist at NRCN-Negev. Head of nuclear physics research group since 2017.
2000-2006 Physicist at IDF.

Awards and scholarships

2006 Katzir scholarship
2012 NRCN Director's award for excellent research
2017 Pazy award for excellent PhD research

Scientific publications

(Since 2010)

Journal articles (Peer review)

1. C. Dubi, T. Ridnick, **I. Israelashvili**, J. Bagi, J. Huszti. "A method for the estimation of fissile mass by measuring the number of neutron signals within a specific time interval"; Nuclear Instruments and methods in physics research-A. Volume 673 (2012), p. 111-115.
2. A. Breskin, **I. Israelashvili**, M. Cortesi, L. Arazi, S. Shchemelinin, R. Chechik, V. Dangendorf, B. Bromberger and D. Vartsky. "A novel liquid-xenon detector concept for combined fast-neutron and gamma imaging and spectroscopy". 2012 JINST 7 C06008. doi: 10.1088/1748-0221/7/06/C06008.
3. C. Dubi, T. Ridnick, **I. Israelashvili**, B. Pedersen. "A novel method for active fissile mass estimation with a pulsed neutron source"; Nuclear Instruments and methods in physics research-A. Volume 715, (2013), p.62-69.
4. A. Beck, **I. Israelashvili**, U. Wengrowicz, E. N. Caspi, I. Yaar, A. Osovizki, A. Ocherashvili, H. Rennhofer, B. Pedersen, J. M. Crochemore, E. Roesgen. "Time dependent measurements of induced fission for SNM interrogation" 2013 JINST 8 P08011. doi:10.1088/1748-0221/8/08/P08011.
5. S. May-tal Beck, M. Butterling, W. Anwand, A. Beck, A. Wagner, G. Brauer, A. Ocherashvili, **I. Israelashvili**, O. Hen. "Study on neutron induced defects in ceramics using the GiPS facility". 16th international conference of positron annihilation (ICPA-16). Journal of Physics: Conference Series 443 (2013) 012076.
6. T. Ridnick, C. Dubi, **I. Israelashvili**, J. Bagi, J. Huszti. "LIST-mode applications for neutron multiplicity counting"; Nuclear Instruments and methods in physics research-A. Volume 735, (2014), p.53-59.
7. C. Dubi, **I. Israelashvili**, and T. Ridnik. "Analytic Model for Dead Time Effect in Neutron Multiplicity Counting". Nuclear Science and Engineering, Volume 176, Number 3, Pages 350-359, March 2014.
8. Y. Ifergan, S. Dadon, **I. Israelashvili**, A. Osovizky, E. Gonen, Y. Yehuda-Zada, D. Smadja, Y. Knafo, D. Ginzburg, Y. Kadmon, Y. Cohen, T. Mazor. "Utilization of wavelength-shifting fibers coupled to ZnS(Ag) and plastic

- scintillator for simultaneous detection of alpha/beta particles". *Nuclear Instruments and Methods in Physics Research A* 784 (2015) 93–96, <http://dx.doi.org/10.1016/j.nima.2014.11.049>
9. **I. Israelashvili**, C. Dubi, H. Etedgui, A. Ocherashvili, B. Pedersen, A. Beck, E. Roesgen, J.M. Crochmore, T. Ridnik, I. Yaar. "Fissile Mass Estimation by Pulsed Neutron Source Interrogation". *Nuclear Instruments and Methods in Physics Research A* 785 (2015) 14–20. doi:10.1016/j.nima.2015.02.048
 10. **I. Israelashvili**, M. Cortesi, D. Vartsky, L. Arazi, D. Bar , E. N. Caspi and A. Breskin. "A Comprehensive Simulation Study of a Liquid-Xe Detector for Contraband Detection". 2015 JINST 10 P03030. <http://arxiv.org/abs/1501.00150>
 11. L. Arazi, A. E. C. Coimbra, E. Erdal, **I. Israelashvili**, M. L. Rappaport, S. Shchemelinin, D. Vartsky, J. M. F. dos Santos and A. Breskin. "Cryogenic gaseous photomultipliers and liquid hole multipliers: advances in THGEM-based sensors for future noble-liquid TPCs". 7th International Symposium on Large TPCs for Low-Energy Rare Event Detection. *Journal of Physics: Conference Series* 650 (2015) 012010. doi:10.1088/1742-6596/650/1/012010
 12. L. Arazi, A. E. C. Coimbra, E. Erdal, **I. Israelashvili**, M. L. Rappaport, S. Shchemelinin, D. Vartsky, J. M. F. dos Santos, and A. Breskin. "First results of a large-area cryogenic gaseous photomultiplier coupled to a dual-phase liquid xenon TPC". 2015 JINST 10 P10020. <http://dx.doi.org/10.1088/1748-0221/10/10/P10020>.
 13. A. E. C. Coimbra, **I. Israelashvili**, and J. M. F. dos Santos. "Photoelectron extraction efficiency from a CsI photocathode and THGEM operation in He-CF₄ and He-CH₄ mixtures". 2016 JINST 11 P03025. doi:10.1088/1748-0221/11/03/P03025.
 14. Y. Ifergan, S. Dadon, A. Ocherashviliy, **I. Israelashvili**, Y. Yehuda-Zada, D. Smadja, L. Carmel, A. Lehrer, Y. Knafo, D. Ginzburg, A. Osovizky, R. Atias, Y. Kadmon, T. Mazor, Y. Cohen. "Development of a Thin, Double Sided Alpha/Beta Detector for Surface Contamination Measurement". *IEEE transactions on nuclear science*, Vol. 63, No. 2, April 2016 (634-638).
 15. D. Vartsky, **I. Israelashvili**, M. Cortesi, L. Arazi, A.E. Coimbra, L. Moleri, E. Erdal, D. Bar ,M. Rappaport, E. N. Caspi , O. Aviv and A. Breskin. "Liquid-Xe detector for contraband detection". *Nuclear Instruments and Methods in Physics Research A* 824 (2016) 240–242. doi:10.1016/j.nima.2015.10.104.

16. D. Vartsky, M. B. Goldberg, V. Dangendorf, **I. Israelashvili**, I. Mor, D. Bar, K. Tittelmeier, M. Weierganz, A. Breskin. "Quantitative discrimination between oil and water in drilled bore cores via fast-neutron resonance transmission radiography". *Appl.Radiat.Isot.* 118 (2016) 87-94
arXiv:1602.06533
17. A. E. C. Coimbra, C. A. O. Henriques, **I. Israelashvili**, J. A. Mir, J. M. F. dos Santos. "Characterization of THGEM coupled to submillimetric induction gaps in Ne/CH₄ and Ar/CH₄ mixtures". 2017 JINST 12 P01013.
18. **I. Israelashvili**, A. Coimbra, D. Vartsky, L. Arazi, S. Shchemelinin, E. N. Caspi, A. Breskin. "Fast-neutron and gamma-ray imaging with a capillary liquid-xenon converter coupled to a gaseous photomultiplier". 2017 JINST 12 P09029.
19. D.Vartsky, M.B.Goldberg, V.Dangendorf, **I.Israelashvili**, I.Mor, D.Bar, K.Tittelmeier, M.Weierganz, B.Bromberger, A.Breskin. "Determination of oil and water in drilled bore cores via fast-neutron resonance transmission radiography". *Nuclear Instruments and Methods in Physics Research A* (2018). <https://doi.org/10.1016/j.nima.2018.10.024>

Conference proceeding papers

1. O. Chen, A. Ocherashvily, S. May-Tal Beck, **I. Israelashvily**, A. Beck, H. Etedgui. "Positron Annihilation Lifetime spectrometry". Proceeding of the 25th conference of the nuclear societies in Israel, 2010.
2. C. Dubi, T. Ridnick, **I. Israelashvili**, J. Bagi, J. Huszti. "A Method for Estimation of Fissile Mass by a Measurement of the Number of Neutron Signals in Time Intervals". Proceedings of the Institute of Nuclear Material Management (INMM) 52nd Annual Meeting, July 2011, Palm Desert, California, USA.
3. A. Breskin, **I. Israelashvili**, M. Cortsi, L. Arazi, S. Shchemelinin, R. Chechik, V. Dangendorf, B. Bromberger, D. Vartsky. "Combined fast-neutron and gamma imaging with a novel liquid-Xenon detector concept". Proceeding of the 26th conference of the nuclear societies in Israel, 2012.

4. C. Dubi, T. Ridnick, **I. Israelashvili**, J. Bagi, J. Huszti. "Fissile mass estimation by measuring the number of neutron signals in time intervals". Proceeding of the 26th conference of the nuclear societies in Israel, 2012.
5. T. Ridnik, C. Dubi, **I. Israelashvili**, J. Bagi, J. Huszti. "A Multi-Energy Model for Estimation of Fissile Mass by a Measurement of the Number of Neutron Signals in Fixed Time Intervals". Proceeding of the Institute of Nuclear Material Management (INMM) 53rd Annual Meeting, July 15-19, 2012 Orlando, Florida, USA.
6. C. Dubi, T. Ridnick, **I. Israelashvili**. "A New Method for the Analysis of the Detection Signal Arriving from a Pulsed Neutron Active Interrogation Facility". Proceedings of the Institute of Nuclear Material Management (INMM) 53rd Annual Meeting, July 15-19, 2012 Orland Florida, USA.
7. C. Dubi, T. Ridnick, **I. Israelashvili**. "Restrictions on the Bohnel Method in Neutron Multiplicity Counting". Proceedings of the Institute of Nuclear Material Management 54th Annual Meeting, July 14-18, 2013, Palm Desert, California, USA.
8. C. Dubi, T. Ridnick, **I. Israelashvili**. "Analytic Model for Dead Time Effect in Neutron Multiplicity Counting". Proceedings of the Institute of Nuclear Material Management (INMM) 54th Annual Meeting, July 14-18, 2013, Palm Desert, California, USA.
9. **I. Israelashvili**, C. Dubi, H. Etedui, A. Ocherashvili, B. Pedersen, T. Ridnik, I. Yaar. "Fissile Mass Estimation by Pulsed Neutron Source". Proceedings of the Institute of Nuclear Material Management (INMM) 54th Annual Meeting, July 14-18, 2013, Palm Desert, California, USA.
10. **I. Israelashvili**, M. Cortesi, D. Vartsky, D. Bar, A. Breskin. "A Liquid Xe Detector for Contraband Detection". Proceeding of the 27th conference of the Israel nuclear societies. February 11-13, 2014. Dead Sea, Israel.
11. C. Dubi, **I. Israelshvili**. "The SVM method for fissile mass estimation through passive neutron interrogation: advances and developments". Proceeding of the 27th conference of the Israel nuclear societies. February 11-13, 2014. Dead Sea, Israel.
12. T. Ridnik, C. Dubi, **I. Israelashvili**, J. Bagi and J. Huszti. "LIST-mode applications for neutron multiplicity". Proceeding of the 55th annual meeting of

the institute of nuclear material management (INMM) 55th, July 20-24, 2014, Atlanta, Georgia, USA.

13. D. Sattinger, A. Avraham, **I. Israelashvili**, A. Sharon and Y.S. Horowitz.
"The contribution of ultra-low energy secondary electrons to nanoscopic radial dose profiles in condensed phase LiF – Facing the challenge".
Proceeding of the 28th conference of the Israel nuclear societies, April 12-14, 2016. Tel-Aviv, Israel.
14. **I. Israelashvili**, A. E. C. Coimbra, D. Vartsky, L. Arazi, S. Shchemelinin, E. N. Caspi, A. Breskin. "Imaging of Fast Neutrons and Gamma-Rays, With Liquid-xenon/Gaseous-Photomultiplier Detector". Proceedings of the Institute of Nuclear Material Management (INMM) 58nd Annual Meeting, July 2017, Indian wells, California, USA.

Presentations in scientific meeting

1. O. Chen, A. Ocherashvily, S. May- al Beck, **I. Israelashvily**, A. Beck, H. Etedgui. "Positron Annihilation Lifetime Spectrometry". The 25th conference of the nuclear societies in Israel, Dead Sea, Israel. February 2010. (Oral presentation by S. May-Tal Beck).
2. A. Beck, **I. Israelashvili**, U. Wengrowicz, E. N. Caspi, I. Yaar, A. Osovizki, A. Ocherashvili. "Development of novel large area coverage gamma detector for active fissile material detection". The 1st Bilateral workshop of the JRC-IAEC cooperation, Ein-Gedi, Israel. May 2010. (Oral presentation by A. Beck).
3. C. Dubi, T. Ridnick, **I. Israelashvili**, J. Bagi, J. Huszti. "A Method for Estimation of Fissile Mass by a Measurement of the Number of Neutron Signals in Time Intervals". The 52nd Annual Meeting of the Institute of Nuclear Material Management (INMM52). Palm Desert, California ,USA. July 2011. (Oral presentation by C. Dubi).
4. A. Breskin, **I. Israelashvili**, M. Cortsi, L. Arazi, S. Shchemelinin, R. Chechik, V. Dangendorf, B. Bromberger, D. Vartsky. "Combined fast-neutron and gamma imaging with a novel liquid-Xenon detector concept". The 2nd

- International Conference on Fast Neutrons Detection and Application (FNDA-2011). Ein-Gedi, Israel. November 2011. (Oral presentation by A. Breskin).
5. A. Breskin, **I. Israelashvili**, M. Cortsi, L. Arazi, S. Shchemelinin, R. Chechik, V. Dangendorf, B. Bromberger, D. Vartsky. "Combined fast-neutron and gamma imaging with a novel liquid-Xenon detector concept". The 26th conference of the nuclear societies in Israel. Dead Sea, Israel. February 2012. (Oral presentation by I. Israelashvili).
 6. C. Dubi, T. Ridnick, **I. Israelashvili**, J. Bagi, J. Huszti. "Fissile mass estimation by measuring the number of neutron signals in time intervals". The 26th conference of the nuclear societies in Israel. Dead Sea, Israel. February 2012. (Oral presentation by I. Israelashvili).
 7. S. May-Tal Beck, M. Butterling, W. Anwand, A. Beck, A. Wagner, G. Brauer, A. Ocherashvili, **I. Israelashvili** and O Hen. "Study of Neutron Induced Defects in Ceramics using the GiPS Facility". The 16th International Conference on Positron Annihilation (ICPA-16). 2012. (Oral presentation by S. May-Tal Beck).
 8. T. Ridnik, C. Dubi, **I. Israelashvili**, J. Bagi, J. Huszti. "A Multi-Energy Model for Estimation of Fissile Mass by a Measurement of the Number of Neutron Signals in Fixed Time Intervals". The 53rd Annual Meeting of the Institute of Nuclear Material Management (INMM53). Orlando, Florida, USA. July 2012. (Oral presentation by T. Ridnik).
 9. C. Dubi, T. Ridnick, **I. Israelashvili**. "A New Method for the Analysis of the Detection Signal Arriving from a Pulsed Neutron Active Interrogation Facility". The 53rd Annual Meeting of the Institute of Nuclear Material Management (INMM53). Orlando, Florida, USA. July 2012. (Oral presentation by C. Dubi)
 10. C. Dubi, **I. Israelashvili**, T. Ridnick, B. Pedersen, J. Bagi. "Fissile mass estimation by neutron counting: advances and developments". The 2nd bilateral workshop of the JRC-IAEC cooperation, Erice, Italy, September 2012 (Oral presentation by C. Dubi).
 11. C. Dubi, T. Ridnick, **I. Israelashvili**. "Restrictions on the Bohnel Method in Neutron Multiplicity Counting". The 54th Annual Meeting of the Institute of Nuclear Material Management (INMM54). Palm Desert, California, USA. July 2013. (Oral presentation by C. Dubi).

12. C. Dubi, T. Ridnick, **I. Israelashvili**. "Analytic Model for Dead Time Effect in Neutron Multiplicity Counting". The 54th Annual Meeting of the Institute of Nuclear Material Management (INMM54). Palm Desert, California, USA. July 2013. (Oral presentation by C. Dubi).
13. **I. Israelashvili**, C. Dubi, H. Etedgui, A. Ocherashvili, B. Pedersen, T. Ridnik, I. Yaar. "Fissile Mass Estimation by Pulsed Neutron Source". The 54th Annual Meeting of the Institute of Nuclear Material Management (INMM54). Palm Desert, California, USA. July 2013. (Oral presentation by I. Israelashvili).
14. **I. Israelashvili**, M. Cortsi, D. Vartsky, D. Bar, A. Breskin. "LXe detector for contraband detection". Joint Israeli-German research program-ACCIS (Automatic Contraband in Cargo Interrogation System) workshop. Weizmann institute of science and NRC-Soreq, Israel. November 2013. (Oral presentation by I. Israelashvili).
15. L. Arazi, A. Breskin, D. Vartsky, **I. Israelashvili**, A. Coimbra. "Development of liquid Xe detectors at WIS". Joint Israeli-German research program-ACCIS (Automatic Contraband in Cargo Interrogation System) workshop. Weizmann institute of science and NRC-Soreq, Israel. November 2013. (Oral presentation by L. Arazi).
16. L. Arazi, A. E. C. Coimbra, **I. Israelashvili**, R. Itay, H. Landsman, L. Levinson, B. Pasmantirer, N. Priel, M. L. Rappaport, S. Shchemelinin, D. Vartsky, A. Breskin. "New detection concepts for future noble-liquid detectors for Dark Matter and rare-event searches". Israel Physical society Conference 2013. (Oral presentation by L. Arazi).
17. **I. Israelashvili**, M. Cortesi, D. Vartsky, D. Bar, A. Breskin. "A Liquid Xe Detector for Contraband Detection". The 27th conference of the Israel nuclear societies. February 11-13, 2014. Dead Sea, Israel. (Oral presentation by I. Israelashvili).
18. C. Dubi, **I. Israelshvili**. "The SVM method for fissile mass estimation through passive neutron interrogation: advances and developments". The 27th conference of the Israel nuclear societies. February 11-13, 2014. Dead Sea, Israel.
(http://www.iaea.org/inis/collection/NCLCollectionStore/_Public/45/114/45114798.pdf). (Oral presentation by Chen Dubi).

19. Y. Ifergan, S. Dadon, **I. Israelashvili**, A. Osovizky, E. Gonen, D. Smadja, Y. Knafo, D. Ginzburg, Y. Kadmon, Y. Cohen, T. Mazor. "Utilization of Wavelength-Shifters Coupled to ZnS(Ag) and Plastic Scintillator for Simultaneous Detection of Alpha/Beta Particles". Symposium on radiation measurements and applications (SORMA XV). June 9-12, 2014. Ann Arbor, Michigan, USA. (Poster).
20. T. Ridnik, C. Dubi, **I. Israelashvili**, J. Bagi and J. Huszti. "LIST-mode applications for neutron multiplicity". The 55th Annual Meeting of the Institute of Nuclear Material Management (INMM55), July 20-24, 2014, Atlanta, Georgia, USA. (Oral presentation by Chen Dubi).
21. L. Arazi, A. E. C. Coimbra, E. Erdal, **I. Israelashvili**, H. Landsman, M. L. Rappaport, S. Shchemelinin, D. Vartsky, A. Breskin. "Advances in Cryogenic Gaseous Photomultipliers for Future Noble-Liquid Detectors for Dark Matter and Rare Event Searches". IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC 2014), 21st symposium on room temperature semiconductor X-ray and gamma-ray detectors. November 2014, Seattle, USA. (Oral presentation by Lior Arazi).
22. L. Arazi, A. E. C. Coimbra, E. Erdal, **I. Israelashvili**, M. L. Rappaport, S. Shchemelinin, D. Vartsky, J. M. F. dos Santos and A. Breskin. "Gaseous photomultipliers and liquid hole-multipliers for future noble-liquid detectors". 7th Symposium on Large TPCs for Low-Energy Rare-Event Detection, November 14, 2014, Paris. (Oral presentation by Lior Arazi).
23. A. Breskin et. al., "Cryogenic THGEM detectors for dark-matter search and other applications". International workshop on advanced detectors (IWAD) and 14th RD51 collaboration meeting, Kolkata, India, 27-31 October 2014. (Invited talk made by Amos Breskin).
24. L. Arazi et. al., "GPMs and LHMs: Lighting up the dark by avalanching electrons and shining bubbles". DARWIN meeting on detectors for future Dark Matter searches, Weizmann Institute of Science, January 7-9 2015. (Oral presentation by Lior Arazi).
25. L. Arazi et. al., "Photo detectors for future dark matter searches". FAST meeting, Prague, April 14-15 2015. (Oral presentation by Lior Arazi).
26. L. Arazi et. al., "Gaseous photomultipliers: a potential alternative for large-scale noble liquid detectors". Astroparticale Physics European Consortium

- (APPEC) meeting, Munich, April 22-23 2015. (Oral presentation by Lior Arazi).
27. D. Vartsky, **I. Israelashvili**, M. Cortesi, L. Arazi, A.E Coimbra, E. Erdal, D. Bar, M. Rappaport, E. N. Caspi and A. Breskin. "Liquid Xe detector for contraband detection". Frontier detectors for frontier physics, 13th Pisa meeting on advanced detectors, 24-30 May 2015 Isola d'Elba (Italy). (Poster).
28. Y. Ifergan, S. Dadon, A. Ocherashvili, **I. Israelashvili**, Y. Yehuda-Zada, D. Smadja, L. Carmel, A. Lehrer, Y. Knafo, D. Ginzburg, A. Osovizky, R. Atias, Y. Kadmon, T. Mazor, Y. Cohen. "Development of a Thin, Double Sided Alpha/Beta Detector for Surface Contamination Measurement". 13th international conference on inorganic scintillators and their application (SCINT 2015) June 7-12, 2015, Berkeley, California, USA. (Poster).
29. L. Arazi et. al., "Low temperature gaseous photomultipliers for large-scale noble liquid detectors". RD51 meeting, CERN, Geneva, June 10 2015. (Oral presentation by Lior Arazi).
30. D. Sattinger, A. Avraham, I. Israelashvili, A. Sharon and Y.S. Horowitz. "The contribution of ultra-low energy secondary electrons to nanoscopic radial dose profiles in condensed phase LiF – Facing the challenge". The 28th conference of the Israel nuclear societies. April 12-14, 2016. Tel-Aviv, Israel. (Oral presentation by D. Sattinger).
31. **I. Israelashvili**, A. Coimbra, D. Vartsky L. Arazi, E. N. Caspi, A. Breskin. "First results of a combined fast-neutron & gamma-ray LXe imaging detector with gaseous photomultiplier readout". Workshop on MPGD Applications Beyond Fundamental Science, Aveiro, Portugal, September 2016. (Oral presentation by A. Coimbra).
32. **I. Israelashvili**, A. E. C. Coimbra, D. Vartsky, L. Arazi, S. Shchemelinin, E. N. Caspi, A. Breskin. "Imaging of Fast Neutrons and Gamma-Rays, With Liquid-xenon/Gaseous-Photomultiplier Detector". 58th Annual Meeting of the Institute of Nuclear Material Management (INMM), July 2017, Indian wells, California, USA. (Oral presentation by I. Israelashvili).

Scientific publications

(Until 2010)

Journal articles (Peer review)

1. S.May-tal Beck, G.Brauer, W.Anwand, Z.Berant, O.Shahal, M.Ganor, **I.Israelashwily**. "Reliability test of a PAL spectrometer-selected results on Fe"; 2004 Material Science Forum 445-446 495-7

Conference proceeding papers

1. S. Levinson, **A. Israelashvili**, O. Shahal, O. Pelled, U. German. "Background reduction of a HPGe-BGO anti-Compton system and its application to soil contamination monitoring". Proceeding of the 22nd conference of the nuclear societies in Israel, 2004. p.50-52.
2. **I. Israelashvili**, S. May-Tal Beck, O. Shahal, Z. Berant, A. Beck, M. Ganor and A. Moalem. "A study of damage evolution in irradiated sapphire (α -Al₂O₃) using positron annihilation and optical transmission methods". Proceeding of the 23rd conference of the nuclear societies in Israel, 2006. p.216-218.
3. **I. Israelashvili**, Y. Ben-Dov and E. Gonen.. "The performance of a CsI-BGO based anticompton spectrometer". Proceeding of the 23rd conference of the nuclear societies in Israel, 2006. p.176-178.

Presentations in scientific meeting

1. S. May-tal Beck, G.Brauer, W. Anwand, Z.Berant, O.Shahal, M.Ganor, **I. Israelashwily**. "Reliability test of a PAL spectrometer - selected results on Fe". The 13th international conference on positron annihilation (ICPA- 13). Kyoto, Japan. September 2003. (Poster)
2. S. Levinson, **A. Israelashvili**, O.Shahal, O. Pelled, U. German. "Background reduction of a HPGe-BGO anti-Compton system and its application to soil contamination monitoring". The 22nd conference of the nuclear societies in Israel, Dead Sea, Israel. February 2004. (Oral presentation by I. Israelashvili).

3. **I. Israelashvili**, S. May-Tal Beck, O. Shahal, Z. Berant, A. Beck, M. Ganor and A. Moalem. "A Study of Damage Evolution in Irradiated Sapphire (α - Al_2O_3) Using Positron Annihilation and Optical Transmission Measurements". The 8th workshop on positron and positronium chemistry (PPC-8), Coimbra, Portugal. September 2005. (Oral presentation by I. Israelashvili).
4. **I. Israelashvili**, S. May-Tal Beck, O. Shahal, Z. Berant, A. Beck, M. Ganor and A. Moalem. "A study of damage evolution in irradiated sapphire (α - Al_2O_3) using positron annihilation and optical transmission methods". The 23rd conference of the nuclear societies in Israel, Dead Sea, Israel. February 2006. (Oral presentation by I. Israelashvili).
5. **I. Israelashvili**, Y. Ben-Dov and E. Gonen. "The performance of a CsI-BGO based anticompton spectrometer". The 23rd conference of the nuclear societies in Israel, Dead Sea, Israel. February 2006. (Oral presentation by Y. Ben-Dov).

דו"חות קמ"ג בלמ"סים

1. **איתמר ישראלשוילי**, שרון מיטל-בק, סילביאן כהנא. "הנחתת רקע קומפטון ע"י שימוש במערכת של גלאי HGPc ו-BGO"; שפ"י/קמ"ג N-2002/707. אלול התשס"ב – אוגוסט 2002.
2. **יאיר בן-דב ואיתמר ישראלשוילי**. "הערכת ביצועים של מערכת אנטיקומפטון מבוססת CsI-BGO"; שפ"י/קמ"ג p-2004-702. אפריל 2004.
3. **שרון מיטל-בק, איתמר ישראלשוילי, צבי ברנט, עודד שחל, אריה בק, סילביאן כהנא**. "מערכת למדידת זמני חיים של פוזיטרונים בחומרים – דו"ח הקמה ומדידות ראשוניות"; שפ"י/קמ"ג N/2004/704. שבט התשס"ה – ינואר 2005.