CURRICULUM VITAE

NAME	Prof. Israel Mardor
ID	069768018
AFFILIATION	Division of Nuclear Physics and Engineering Soreq NRC, Yavne 81800, Israel 08-9434764 and Department of Particle Physics, School of Physics and Astronomy Tel Aviv University, 30 Haim Levanon St., Tel Aviv 6997801, Israel 03-6407417 mardor@soreq.gov.il
HOME ADDRESS	1 Tirat Tzvi St., Rishon Letzion 7528291, Israel 050-6292104
DATE AND PLACE OF BIRTH	July 26th, 1963, United States of America
DATE OF ARRIVAL IN ISRAEL	November 1967

A. Education

1981 - 1984	Tel Aviv University, Tel Aviv, Israel **Physics, B. Sc.**
1988 - 1991	Tel Aviv University, Tel Aviv, Israel **Nuclear Physics, M.Sc.**
Master's Thesis title:	The surface energy of the quark-gluon plasma
Supervisor:	Prof. Benjamin Svetitsky
1991 – 1997	Tel Aviv University, Tel Aviv, Israel
Doctoral Dissertation:	**Nuclear Physics, Ph.D.**
Supervisors:	Nuclear filtering in wide angle exclusive scattering Prof. Eli Piasetzky and Prof. Jonas Alster

B. Further Studies

1997-1998	Development Project Management 60 hours, Soreq NRC
1998-1999	Cardiology – From the Basics to Open Questions 36 hours, Soreq NRC and Kaplan Hospital
1999	Research and Development Marketing 32 hours, Soreq NRC and Zigelman Institute of Marketing Research
2002	Project Management 16 hours, Ornatec Inc.
2004	Management Skills Development 16 hours, John Bryce Inc.
2004	Project Management by Constraint Theory – TOC 16 hours, Goldrat Institute

2006-2007	Radiation Safety at the SARAF Accelerator 49 hours, Soreq NRC Radiation Safety School
2011-2012	Senior Management Course 96 hours, Lotem Inc.

C. Academic and Professional Experience

C1. Professional Experience

1997 - 2001	**Soreq NRC** **Solid State Detectors and Cameras** **Research Physicist**
2001	**Soreq NRC** **NUCAM Gamma Camera** **Project Manager**
2002-2008	**Soreq NRC** **SARAF Project** **Deputy Manager**
2008-2011	**Soreq NRC** **SARAF Project** **Manager**
2011-2017	**Soreq NRC** **Nuclear Physics and Engineering Division** **Head (member of Soreq NRC management)**
2017 - Now	**Tel Aviv University** **Department of Particle Physics** **Visiting Associate Professor**
2019 - Now	**Soreq NRC** **Nuclear Physics and Engineering Division, SARAF Department** **Project Manager** **IAEC** **Chief Scientist Unit** **Researcher**

D. Active Participation In Scientific Meetings

Year	Name of Meeting, City, Country	Detailed Activity
1995	Annual AGS Users Meeting, Upton, USA	Speaker
1997	Intersections Between Particle and Nuclear Physics, 6th Conference, Big Sky, USA	Speaker
1999	SPIE Conference on Penetrating Radiation Systems and Applications, Denver, USA	Speaker

2000	IEEE Nuclear Science Symposium and Medical Imaging Conference, Lyon, France	Speaker
2002	21st Conference of the Nuclear Societies in Israel, Haifa, Israel	Speaker
2004	22nd Conference of the Nuclear Societies in Israel, Dead Sea, Israel	Speaker
2005	Workshop on Accelerator Operations, WAO2005, Chicago, USA	Invited Speaker
2006	23rd Conference of the Nuclear Societies in Israel, Dead Sea, Israel	Speaker, Session Chair
2006	23rd Linear Accelerator Conference, LINAC 2006, Knoxville, USA	Posters
2007	53rd Annual Meeting of the Israel Physical Society, Rehovot, Israel	Conference Co-Chair
2007	Workshop on Accelerator Operations, WAO2007, Trieste, Italy	Invited Speaker
2008	54th Annual Meeting of the Israel Physical Society, Beer-Sheva, Israel	Scientific Organizing Committee
2008	11th European Particle Accelerator Conference, EPAC08, Genoa, Italy	Poster
2008	24th Linear Accelerator Conference, LINAC 2008, Victoria, Canada	Invited Speaker
2008	SARAF Workshop 2008, Maale Hachamisha, Israel	Invited Speaker
2009	55th Annual Meeting of the Israel Physical Society, Ramat-Gan, Israel	Scientific Organizing Committee
2009	SPIRAL2 Week 2009, Caen, France	Invited Speaker
2009	Particle Accelerator Conference, PAC 2009, Vancouver, Canada	Poster
2009	14th International Conference on RF Superconductivity, SRF 2009, Berlin, Germany	Invited Speaker
2010	25th Linear Accelerator Conference, LINAC10, Tsukuba, Japan	International Organizing Committee, Session Chair
2011	2nd International Workshop on Fast Neutron Detectors and Applications, FNDA 2011, Ein Gedi, Israel	Invited Speaker
2011	2nd International Workshop on Accelerator Radiation Induced Activation, ARIA2011, Maale Hachamisha, Israel	Organizing Committee

2012	26th Linear Accelerator Conference, LINAC12, Tel-Aviv, Israel	Conference Chair
2013	59th Annual Meeting of the Israel Physical Society, Rehovot, Israel	Review Session Chair
2014	27th Linear Accelerator Conference, LINAC14, Geneva, Switzerland	International Organizing Committee
2015	High Power Proton Accelerators (HPPA) Mini-Workshop, Lanzhou, China	Session Chair
2016	26th International Nuclear Physics Conference, INPC 2016, Adelaide, Australia	Speaker
2017	Research Workshop of the Israel Science Foundation - Study of High-Density Nuclear Matter With Hadron Beams, Rehovot, Israel	Session Chair
2017	NUSTAR Week 2017, Ljubljana, Slovenia	Invited Speaker
2017	63rd Annual Meeting of the Israel Physical Society, Haifa, Israel	Poster
2018	NUSTAR Annual Meeting 2018, GSI, Darmstadt, Germany	Invited Speaker
2018	The 29th Conference of the Nuclear Societies in Israel, Herzeliya, Israel	Speaker
2018	22nd International Conference on Few-Body Problems in Physics (FB22), Caen, France	Invited Speaker
2018	International Workshop on Spin Physics at NICA (SPIN-Praha-2018), Prague, Czech Republic	Invited Speaker
2018	23rd International Spin Symposium (Spin 2018), Ferrara, Italy	Invited Speaker, Session Chair
2019	Workshop on new sources of ionizing radiation and accelerators in Israel and their applications, Israel Academy of Sciences, Jerusalem, Israel	Invited Speaker
2019	International Workshop on Stopping and Manipulation of Ions and related topics (SMI2019), Montreal, Canada	Invited Speaker
2019	Israel - Italy Scientific Workshop on Particle Accelerators - Development and Uses in Medical, Industry, Science and the Environment, Tel Aviv, Israel	Invited Speaker

E. Academic and Professional Awards

E.1 TAU Grants

Nuclear Physics Institute Grant, May 2017, 'Measurement of Neutron-Rich Exotic Isotopes Properties', **14,500 NIS**

Nuclear Physics Institute Grant, July 2018, 'Fission based experiments at SARAF and GSI', **8,000 NIS**

Nuclear Physics Institute Grant, July 2019, 'Fission based experiments at SARAF and GSI', **12,000 NIS**

E.1.2 External Grants

Ministry of Energy Research Grant, 2018-2020, 'A Knowledge Infrastructure for Neutron Induced Fission in Israel', **700,000 NIS**

EU ENSAR2 Transnational Access Grant to GSI, 2019-2020 'Development of RF-electronics (Mass-filter and RF carpet) for the FRS Ion Catcher', **10,400 €**

E.2 Fellowships

N/A

E.3 Scholarships

1997-2002 Katzir Scholarship

E.4 Prizes

2001 Soreq NRC Annual Excellence Award – 3rd Place

F. Membership in Professional Societies

2005-2013	Israel Physical Society (IPS) Council	Treasurer 2008-2010
2009-2016	Linear Accelerator Conference International Organizing Committee (LINAC IOC)	Chair 2010-2012
2013-2017	The National Committee for Nuclear Physics of the Israel Academy of Sciences and Humanities	
2013-2016	Pazy Foundation Steering Committee	
2018 -	NUSTAR Collaboration Council	
2019 - 2021	IAEA's Standing Advisory Group on Nuclear Applications (SAGNA)	

G. Doctoral Students Supervised by Candidate

2009-2013	Dr. Michal Brandis	Physics, Development of Gamma-Ray Detector for Z-Selective Radiographic Imaging	Co-supervisor with Prof. Eliyahu Friedman, Hebrew University at Jerusalem
2010-2014	Dr. Sergey Vaintraub	Physics, Development of advanced methods for precision measurements of the beta-neutrino correlation	Co-supervisor with Prof. Michael Hass, Weizmann Institute of Science

2011-2015	Dr. Ilan Eliyahu	Nuclear Engineering, Kinetic Modeling of the LiF:Mg,Ti TL System Including Defect Creation: Implications to, and Development of Track Structure Theory Calculations of Heavy Charged Particle Radiation Effects	Co-supervisor with Prof. Yigal Horowitz, Ben Gurion University of the Negev
2020-	Mr. Nahum Shabi	Physics, New measurements of the fission process and exotic nuclide properties	Co-supervisor with Prof. Eli Piasetzky, Tel Aviv University

G.1 Post-doctorate fellows

2018-	Dr. David Benyamin	Physics, Neutron induced fission and exotic nuclide properties	Co-supervisor with Prof. Eli Piasetzky, Tel Aviv University

G.1 PhD Follow-up Committee Membership

2012-2014	Dr. Shlomi Halfon	Hebrew University at Jerusalem
2012-2015	Dr. Gitai Feinberg	Hebrew University at Jerusalem
2016-2018	Dr. Moshe Tessler	Hebrew University at Jerusalem
2018-Now	Ms. Ayala Glick Magid	Hebrew University at Jerusalem

G.2 PhD Examination Committee Membership

2018	Mr. Ore Gottlieb	Tel Aviv University
2018	Dr. Benjamin Bromberger	Humboldt University of Berlin
2019	Mr. Boaz Kaizer	Ariel University

G.3 M.Sc Examination Committee Membership

2019	Mr. Dolev Roitman	Tel Aviv University

G.4 Undergraduate Student Supervision

2018-	Ms. Hadar Aharon	Monte-Carlo simulations of neutron induced fission experiments
2018-	Ms. Rotem Barat	Monte-Carlo simulations of neutron induced fission experiments
2018-	Ms. Hodaya Dafna	Software for instrumentation for exotic isotope experiments at GSI

SCIENTIFIC PUBLICATIONS

Personal H-Index (from Scopus Web of Science): **19**

Total Number of Citations (from Scopus Web of Science) : **1092** by 793 documents

ORIGINAL ARTICLES

1. **Israel Mardor** and Benjamin Svetitsky, *Bubble free energy at the quark-hadron phase transition*, **Phys. Rev. D** 44, 878 (1991)
2. R.A. Krauss, J. Alster, D. Ashery, S. Bart, R.E. Chrien, J.C. Hiebert, R.R. Johnson, T. Kishimoto, **I. Mardor**, Y. Mardor, M.A. Moinester, R. Olchevsky, E. Piasetsky, P.H. Pile, R. Sawafta, R.L. Stearns, R.J. Sutter, R. Weiss, A.I. Yavin, *K+ total cross section on 12C and medium effects in nuclei*, **Phys. Rev. C** 46, 655 (1992)
3. **I. Mardor**, Y. Mardor, E. Piasetsky, J. Alster, M.M. Sargsyan, *Effect of multiple scattering on the measurement of nuclear transparency*, **Phys. Rev. C** 46, 761 (1992)
4. R. Sawafta, R. Weiss, J. Aclander, J. Alster, M. Barakat, S. Bart, R.E. Chrien, R.A. Krauss, K. Johnston, **I. Mardor**, Y. Mardor, S. MayTal-Beck, E. Piasetsky, P.H. Pile, H. Seyfarth, R.L. Stearns, R. J. Sutter, A.I. Yavin, *The influence of the nuclear medium on K^+ total cross sections,* **Phys. Lett. B** 307, 293 (1993)
5. R. Weiss, J. Aclander, J. Alster, M. Barakat, S. Bart, R.E. Chrien, R.A. Krauss, K. Johnston, **I. Mardor**, Y. Mardor, S. MayTal-Beck, E. Piasetsky, P.H. Pile, R. Sawafta, H. Seyfarth, R.L. Stearns, R.J. Sutter, A.I. Yavin, *Measurement of low energy K^+ total cross section on N=Z nuclei*, **Phys. Rev. C** 49, 2569 (1994)
6. J. Wu, E.D. Minor, J.E. Passaneau, S.F. Heppelmann, C. Ng, G. Bunce, **I. Mardor**, *The EVA trigger: Transverse momentum selection in a solenoid*, **Nucl. Inst. Meth. A** 349, 183 (1994)
7. J. Wu, S. Durrant, E. Minor, S. Heppelmann, D. Barton, G. Bunce, A. Carroll, S. Gushue, S. Kaye, M. Kmit, Y. Makdisi, D. Martel, T. Roser, M. Tanaka, N. Christensen, H. Courant, M. Marshak, D. Maxam, C. White, S. Baker, F. Barbosa, J. Russell, H. Nicholson, H. Aclander, J. Alster, **I. Mardor**, Y. Mardor, E. Piasetzky, *Transparency in hadronic reactions at high momentum transfers*, **AIP Conf. Proc.** 338, 424 (1995)
8. E. Friedman, A. Gal, R. Weiss, J. Aclander, J. Alster, **I. Mardor**, Y. Mardor, S. MayTal-Beck, E. Piasetsky, A.I. Yavin, S. Bart, R.E. Chrien, P.H. Pile, R. Sawafta, R.J. Sutter, M. Barakat, K. Johnston, R.A. Krauss, H. Seyfarth, R.L. Stearns, *Medium effects from K^+ nucleus reaction and total cross sections: new analysis of transmission experiments*, **Phys. Rev. C** 55, 1304 (1997)
9. **I. Mardor**, *High p_t quasi-exclusive scattering with resonance production,* **AIP Conf. Proc.** 412, 640 (1997)
10. Y. Mardor, J. Aclander, J. Alster, D. Barton, G. Bunce, A. Carroll, N. Christensen, H. Courant, S. Durrant, S. Gushue, S. Heppelmann, E. Kosonovsky, **I. Mardor**, M. Marshak, Y. Makdisi, E.D. Minor, I. Navon, H. Hicholson, E. Piasetsky, T. Roser, J. Russell, C.S. Sutton, M. Tanaka, C. White, J.-Y. Wu, *Measurement of quasi-elastic $^{12}C(p,2p)$ scattering at high momentum transfe*r, **Phys. Lett. B** 437, 257 (1998)
11. **I. Mardor**, S. Durrant, J. Aclander, J. Alster, D. Barton, G. Bunce, A. Carroll, N. Christensen, H. Courant, S. Gushue, S. Heppelmann, E. Kosonovsky, Y. Mardor, M. Marshak, Y. Makdisi, E.D. Minor, I. Navon, H. Hicholson, E. Piasetsky, T. Roser, J. Russell, C.S. Sutton, M. Tanaka, C. White, J.-Y. Wu, *Nuclear transparency in large momentum transfer quasielastic scattering*, **Phys. Rev. Lett.** 81, 5085 (1998)
12. J. Aclander, J. Alster, D. Barton, G. Bunce, A. Carroll, N. Christensen, H. Courant, S. Durrant, S. Gushue, S. Heppelmann, E. Kosonovsky, **I. Mardor**, Y. Mardor, M. Marshak, Y. Makdisi, E.D. Minor, I. Navon, H. Hicholson, E. Piasetsky, T. Roser, J. Russell, M. Sargsian, C.S. Sutton, M. Tanaka, C. White, J.-Y. Wu, *The large momentum transfer reaction $^{12}C(p,2p+n)$ as a new method for measuring short range NN correlations in nuclei*, **Phys. Lett. B** 453, 211 (1999)
13. Asher Shor, Yossi Eisen, **Israel Mardor,** *Spectroscopy with CdZnTe γ- and X-ray detectors by modifying the electron trapping to compensate for incomplete charge collection caused by large hole trapping*, **Nucl. Inst. Meth. A** 426, 491 (1999)
14. Y. Eisen, A. Shor, **I. Mardor**, *CdTe and CdZnTe gamma ray detectors for medical and industrial imaging systems*, **Nucl. Inst. Meth. A** 428, 158 (1999)
15. A. Shor, Y. Eisen, **I. Mardor**, *Optimum spectroscopic performance from CZT γ- and X-ray detectors with pad and strip segmentation*, **Nucl. Inst. Meth. A** 428 182 (1999)

16. A. Shor, Y. Eisen, **I. Mardor**, *Spectroscopy with pixelated CdZnTe gamma detectors – experiment versus theory*, **Nucl. Inst. Meth. A** 458, 47 (2001)
17. **I. Mardor**, A. Shor, Y. Eisen, *Edge and corner effects on spectra of segmented CdZnTe detectors*, **IEEE Trans. Nucl. Sci.** vol. 48, 1033 (2001)
18. Y. Eisen, **I. Mardor**, A. Shor, Z. Baum, D. Bar, G. Feldman, H. Cohen, E. Issac, R. Haham-Zada, S. Blitz, Y. Cohen, B. Glick, R. Falk, S. Roudebush, I. Blevis, *NUCAM3 - A Gamma Camera Based on Segmented Monolithic CdZnTe Detectors*, **IEEE Trans. Nucl. Sci.** vol. 49, 1728, August 2002
19. A. Shor, **I. Mardor**, Y. Eisen, *Performance of a 1cm×1cm×1cm Pixelated CdZnTe Gamma Detectors*, **IEEE Trans. Nucl. Sci.** vol. 49, 1935, August 2002
20. K. van der Meer, M.B. Goldberg, E.H. Lehmann, H. Ait Abderrahim, D. Bar, D. Berkovits, M. Daum, S. Dekevler, J. Gerber, F. Van Gestel, W. Hajdas, H.-P. Linder, E. Malambu, **I. Mardor**, J. Oeyen, D. Saphier, A. Shor, M. Willekens, Y. Yariv, *Spallation yields of neutrons produced in thick lead/bismuth targets by protons at incident energies of 420 and 590 MeV*, **Nucl. Inst. Meth. B** 217, 202-220, 2004
21. Y. Eisen, A. Shor, **I. Mardor**, *CdTe and CdZnTe X-Ray and Gamma-Ray Detectors for Imaging Systems*, **IEEE Trans. Nucl. Sci.** vol. 51, 1191, June 2004
22. A. Shor, Y. Eisen, **I. Mardor**, *Gamma Spectroscopy with Pixelated CdZnTe Detectors*, **IEEE Trans. Nucl. Sci.** vol. 51, 1204, June 2004
23. J. Aclander, J. Alster, G. Arsyan, Y. Averiche, D. S. Barton, V. Baturin, N. Buktoyarova, G. Bunce, A. S. Carroll, N. Christensen, H. Courant, S. Durrant, G. Fang, K. Gabriel, S. Gushue, K. J. Heller, S. Heppelmann, T. Kawabata, I. Kosonovsky, A. Leksanov, Y. I. Makdisi, A. Malki, **I. Mardor**, Y. Mardor, M. L. Marshak, D. Martel, E. Minima, E. Minor, I. Navon, H. Nicholson, A. Ogawa, Y. Panebratsev, E. Piasetzky, T. Rozer, J. J. Russell, A. Schetkovsky, S. Shimanskiy, M. A. Shupe, S. Sutton, M. Tananka, A. Tang, I. Tsetkov, H. Yoshida, J. Watson, C. White, J-Y. Wu, D. Zhalov, *Nuclear Transparency in 90°$_{c.m.}$ Quasielastic A(p,2p) Reactions*, **Phys. Rev. C** 70, 015208 (2004)
24. A. Shor, Y. Eisen, **I. Mardor**, *Edge Effects in Pixelated CdZnTe Gamma Detectors*, **IEEE Trans. Nucl. Sci.** vol. 51, 2412, October 2004
25. D. Vartsky, I. Mor, M.B. Goldberg, **I. Mardor**, G. Feldman, D. Bar, A. Shor, V. Dangendorf, G. Laczko, A. Breskin, R. Chechik, *Time-resolved fast neutron imaging: simulation of detector performance*, **Nucl. Inst. Meth. A** 542, 206-212, 2005
26. I. Mor, D. Vartsky, **I. Mardor**, M. B. Goldberg, D. Bar, G. Feldman, V. Dangendorf, A. Breskin, R. Chechik, *Monte-Carlo Simulations of Time-Resolved, Optical Readout Detector for Fast-Neutron Transmission Spectroscopy (PFNTS)*, **Proceedings of Science**, International Workshop on Fast Neutron Detectors and Applications, PoS (FNDA 2006) 064, (2006).
27. A. Shor, Y. Eisen, **I. Mardor**, *Spectroscopy for Compton Interaction in Pixelated CdZnTe Detectors*, **IEEE Trans. Nucl. Sci.** vol. 53, 1656, June 2006
28. M. Brandis, V. Dangendorf, C. Piel, D. Vartsky, B. Bromberger, D. Bar, E. Friedman, **I. Mardor**, I. Mor, K. Tittelmeier, M. B. Goldberg, *Nuclear-Reaction-Based Radiation Source for Explosives- and SNM-Detection of Massive Cargo*, **AIP Conf. Proc.** Vol. 1336, 711-716, 2011
29. M. Hass, S. Vaintraub, O. Aviv, K. Blaum, O. Heber, **I. Mardor**, M. Rappaport, A. Wolf, D. Zajfman, *A novel method for fundamental interaction studies with an electrostatic ion beam trap*, **Journal of Physics: Conf. Ser.** 267 012013 2011
30. M. Brandis, M. B. Goldberg, D. Vartsky, E. Friedman, I. Kreslo, **I. Mardor**, V. Dangendorf, S. Levi, I. Mor, D. Bar, *Proof of Principle of a High-Spatial-Resolution, Resonant-Response Gamma-Ray Detector for Gamma Resonance Absorption in ^{14}N*, **Journal of Instrumentation** 6 P02008 2011
31. M. Brandis, D. Vartsky, V. Dangendorf, B. Bromberger, D. Bar, M. B. Goldberg, K. Tittelmeier, E. Friedman, A. Czasch, **I. Mardor**, I. Mor, M. Weierganz, *Neutron measurements with Time-Resolved Event-Counting Optical Radiation (TRECOR) detector*, **Journal of Instrumentation** 7 C04003 2012
32. I. Mor, D. Vartsky, M. Brandis, M. B. Goldberg, D. Bar, **I. Mardor**, V. Dangendorf, B. Bromberger *Fast-neutron imaging spectrometer based on liquid scintillator loaded capillaries*, **Journal of Instrumentation** 7 C04021 2012

33. A. Shor, D. Vartsky, V. Dangendorf, D. Bar, Y. Ben Aliz, D. Berkovits, M. Brandis, M. B. Goldberg, A. Grin, **I. Mardor**, I. Mor, L. Weissman, *Fast beam chopper at SARAF accelerator via RF deflector before RFQ*, **Journal of Instrumentation** 7 C06003 2012

34. S. Halfon, A. Arenshtam, D. Kijel, M. Paul, D. Berkovits, I. Eliyahu, G. Feinberg, M. Friedman, N. Hazenshprung, **I. Mardor**, A. Nagler, G. Shimel, M. Tessler, I. Silverman, *High-power liquid-lithium jet target for neutron production*, **Review of Scientific Instruments** 84, 123507 (2013)

35. I. Eliyahu, Y. S. Horowitz, L. Oster, **I. Mardor**, *A kinetic model incorporating both localized and delocalized recombination: Application to the dependence of the TL dose response on photon energy*, **Journal of Luminescence** 145 (2014) 600–607

36. S. Halfon, A. Arenshtam, D. Kijel, M. Paul, L. Weissman, O. Aviv, D. Berkovits, O. Dudovitch, Y. Eisen, I. Eliyahu, G. Feinberg, G. Haquin, N. Hazenshprung, A. Kreisel, **I. Mardor**, G. Shimel, A. Shor, I. Silverman, M. Tessler, Z. Yungrais, *Note: Proton irradiation at kilowatt-power and neutron production from a free-surface liquid-lithium target*, **Review of Scientific Instruments** 85, 056105 (2014)

37. M. Paul, M. Tessler, G. Feinberg, S. Halfon, A. Arenshtam, O. Aviv, D. Berkovits, Y. Eisen, I. Eliyahu, G. Haquin, N. Hazenshprung, D. Kijel, A. Kreisel, **I. Mardor**, G. Shimel, A. Shor, I. Silverman, A. Sonn, L. Weissman, Z. Yungrais, *First Nuclear-Astrophysics Experiments With High-Intensity Neutrons From The Liquid-Lithium Target LiLiT*, **Proceedings of Science**, 13th International Symposium on Nuclei in the Cosmos, PoS (NIC XIII) 059, (2014)

38. S. Halfon, M. Paul, A. Arenshtam, D. Berkovits, D. Cohen, I. Eliyahu, D. Kijel, **I. Mardor**, I. Silverman, *High-power electron beam tests of a liquid-lithium target and characterization study of ^{7}Li(p,n) near-threshold neutrons for accelerator-based boron neutron capture therapy*, **Applied Radiation and Isotopes** Volume 88, 2014, 238-242

39. I. Eliyahu, Y.S. Horowitz, L. Oster, S. Druzhyna, **I. Mardor**, *Nanodosimetric kinetic model incorporating localized and delocalized recombination: Application to the prediction of the electron dose response of the peak 5a/5 ratio in the glow curve of LiF:Mg,Ti (TLD-100)*, **Radiation Measurements** 71 (2014) 226-231

40. I. Eliyahu, Y.S. Horowitz, L. Oster, **I. Mardor**, S. Druzhyna, S. Biderman, *Kinetic modeling of Fluorine vacancy/F center creation in LiF:Mg,Ti including vacancy-interstitial recombination: Evaluating the factors leading to the lack of supralinearity in the optical absorption F center concentration dose response*, **Nucl. Inst. Meth. B** Volume 343, (2015), 15-25

41. I. Eliyahu, Y.S. Horowitz, L. Oster, L. Weissman, A. Kreisel, O. Girshevitz, S. Marino, S. Druzhyna, S. Biderman, **I. Mardor**, *Probing the defect nanostructure of helium and proton tracks in LiF:Mg,Ti using optical absorption: Implications to track structure theory calculations of heavy charged particle relative efficiency*, **Nucl. Inst. Meth. B** Volume 349, (2015), 209-220

42. M. Paul, A. Arenshtam, S. Halfon, D. Kijel, M. Tessler, L. Weissman, D. Berkovits, Y. Eisen, I. Eliyahu, M. Friedman, G. Feinberg, A. Kreisel, **I. Mardor**, G. Shimel, A. Shor, I. Silverman, *A high-power liquid-lithium target (LiLiT) for neutron production*, **Journal of Radioanalytical and Nuclear Chemistry** Volume 305, Issue 3, pp 783-786, 2015

43. S. Halfon, A. Arenshtam, D. Kijel, M. Paul, L. Weissman, D. Berkovits, I. Eliyahu, G. Feinberg, A. Kreisel, **I. Mardor**, G. Shimel, A. Shor, I. Silverman, M. Tessler, *Demonstration of a high-intensity neutron source based on a liquid-lithium target for Accelerator based Boron Neutron Capture Therapy*, **Applied Radiation and Isotopes** Volume 106, 2015, 57-62

44. M. Tessler, M. Paul, A. Arenshtam, G. Feinberg, M. Friedman, S. Halfon, D. Kijel, L. Weissman, O. Aviv, D. Berkovits, Y. Eisen, I. Eliyahu, G. Haquin, A. Kreisel, **I. Mardor**, G. Shimel, A. Shor, I. Silverman, Z. Yungrais, *Stellar 30-keV neutron capture in ^{94,96}Zr and the ^{90}Zr(γ, n)^{89}Zr photonuclear reaction with a high-power liquid-lithium target*, **Phys. Lett. B**, Volume 751, 2015, 418-422

45. **I. Mardor** and D. Berkovits, *The Soreq Research Accelerator Facility (SARAF)*, **Nuclear Physics News** 25:1, 16-22 (2015)

46. **I. Mardor**, D. Berkovits, S. Halfon, T. Hirsh, Y. Mishnayot, I. Silverman, S. Vaintraub, L. Weissman, M. Hass, I. Mukul, B. Ohayon, M. Paul, G. Ron, M. Tessler, T. Dickel, *Research Programs and Plans at the Soreq Applied Research Accelerator Facility – SARAF*, **Proceedings of Science**, PoS (INPC2016) 109 (2017)

47. D. Izraeli, T. Brecelj, P. Achenbach, A. Ashkenazi, R. Böhm, E. O. Cohen, M. O. Distler, A. Esser, R. Gilman, T. Kolar, I. Korover, J. Lichtenstadt, **I. Mardor**, H. Merkel, M. Mihovilovic, U. Müller, M. Olievenboim, E. Piasetzky, G. Ron, B. S. Schlimme, M. Schoth, C. Sfienti, S. Širca, S. Štajner, S. Strauch, M. Thiel, A. Weber, I. Yaron, *Measurement of polarization-transfer to bound protons in carbon and its virtuality dependence*, **Phys. Lett. B**, 781, 2018, 95-98

48. D. Izraeli, I. Yaron, B.S. Schlimme, P. Achenbach, H. Arenhövel, A. Ashkenazi, J. Bericic, R. Böhm, D. Bosnar, E.O. Cohen, M.O. Distler, A. Esser, I. Frišcic, R. Gilman, I. Korover, J. Lichtenstadt, **I. Mardor**, H. Merkel, D.G. Middleton, M. Mihovilovic, U. Müller, M. Olievenboim, E. Piasetzky, J. Pochodzalla, G. Ron, M. Schoth, F. Schulz, C. Sfienti, S. Širca, S. Štajner, S. Strauch, M. Thiel, A. Tyukin, A. Weber, *Components of polarization-transfer to a bound proton in a deuteron measured by quasi-elastic electron scattering*, **Phys. Lett. B**, 781, 2018, 107-111

49. I. Silverman, A. Arenshtam, D. Berkovits, I. Eliyahu, I. Gavish, A. Grin, S. Halfon, M. Hass, T.Y. Hirsh, B. Kaizer, D. Kijel, A. Kreisel, **I. Mardor**, Y. Mishnayot, T. Palchan, A. Perry, M. Paul, G. Ron, G. Shimel, A. Shor, N. Tamim, M. Tessler, S. Vaintraub, L. Weissman, *Scientific opportunities at SARAF with a liquid lithium jet target neutron source*, **AIP Conference Proceedings** 1962, 020002 (2018)

50. **I. Mardor**, O. Aviv, M. Avrigeanu, D. Berkovits, A. Dahan, T. Dickel, I. Eliyahu, M. Gai, I. Gavish-Segev, S. Halfon, M. Hass, T. Hirsh, B. Kaiser, D. Kijel, A. Kreisel, Y. Mishnayot, I. Mukul, B. Ohayon, M. Paul, A. Perry, H. Rahangdale, J. Rodnizki, G. Ron, R. Sasson-Zukran, A. Shor, I. Silverman, M. Tessler, S. Vaintraub, L. Weissman, *The Soreq Applied Research Accelerator Facility (SARAF) – Overview, Research Programs and Future Plans*, **European Physics Journal A** 54: 91 (2018), EPJA Highlight, May 2018 EPJA printed edition cover page, EPN 49/4 Highlight.

51. D. Izraeli, **I. Mardor**, E.O. Cohen, M. Duer, T.Y. Izraeli, I. Korover, J. Lichtenstadt, E. Piasetzky, *Polar polarization: a new method for polarimetry analysis*, **Journal of Instrumentation** 13 P07209 (2018)

52. A. Shor, B. Kaizer, I. Eliyahu, T. Hirsh, Y. Eisen, A. Kreisel, L. Weissman, A. Perry, **I. Mardor**, S. Halfon, G. Feinberg, D. Kijel, Y. Mishnayot, S. Vaintraub, H. Yishai, H. Daphna, S. Yakobi. E. Farber, *Single Bunch Selection for Neutron Time-of-Flight Capabilities at SARAF based on fast bipolar HV switching of electrostatic deflector upstream of the RFQ*, **Phys. Rev. Accel. Beams** 22, 020403 (2019)

53. S. Paul, T. Brecelj, H. Arenhövel, P. Achenbach, A. Ashkenazi, J. Bericic, R. Böhm, D. Bosnar, E.O. Cohen, L. Debenjak, M.O. Distler, A. Esser, I. Frišcic, R. Gilman, D. Izraeli, T. Kolar, I. Korover, J. Lichtenstadt, **I. Mardor**, H. Merkel, D.G. Middleton, M. Mihovilovic, U. Müller, M. Olivenboim, E. Piasetzky, J. Pochodzalla, G. Ron, B.S. Schlimme, M. Schoth, F. Schulz, C. Sfienti, S. Širca, S. Štajner, S. Strauch, M. Thiel, A. Tyukin, A. Weber, I. Yaron, *Fermi motion considerations in comparing polarization transfer to a proton in elastic and quasi-elastic scattering*, **Phys. Lett. B,** 792, 2019, 445-449

54. Samuel Ayet San Andres, Christine Hornung, Jens Ebert, Wolfgang R. Plass, Timo Dickel, Hans Geissel, Christoph Scheidenberger, Julian Bergmann, Florian Greiner, Emma Haettner, Christian Jesch, Wayne Lippert, **Israel Mardor**, Ivan Miskun, Zygmunt Patyk, Stephane Pietri, Alexander Pihktelev, Sivaji Purushothaman, Moritz P. Reiter, Ann-Kathrin Rink, Helmut Weick, Mikhail I. Yavor, Soumya Bagchi, Volha Charviakova, Paul Constantin, Marcel Diwisch, Andrew Finlay, Satbir Kaur, Ronja Knobel, Johannes Lang, Bo Mei, Iain D. Moore, Jan-Hendrik Otto, Ilkka Pohjalainen, Andrej Prochazka, Christophe Rappold, Maya Takechi, Yoshiki K. Tanaka, John S. Wineld, and Xiaodong Xu, *High-resolution, accurate MR-TOF-MS for short-lived, exotic nuclei of few events in their ground and low-lying isomeric states*, **Phys. Rev. C** 99, 064313 (2019)

55. Sebouh Paul, David Izraeli, Tilen Brecelj, Israel Yaron, Patrick Achenbach, Hartmuth Arenhövel, Adi Ashkenazi, Jure Beričič, Ralph Böhm, Damir Bosnar, Ethan Cline, Erez O Cohen, Luka Debenjak, Michael O. Distler, Ivica Friščić, Ronald Gilman, Zaneta Hamryszczak, Matthias Heilig, Simon Kegel, Pascal Klag, Yvonne Kohl, Tim Kolar, Igor Korover, Jechiel Lichtenstadt, **Israel Mardor**, Harald Merkel, Duncan G. Middleton, Miha Mihovilovič, Julian Müller, Ulrich Müller, Mor Olivenboim, Eliezer Piasetzky, Josef Pochodzalla, Guy Ron, Björn S Schlimme, Matthias Schotch, Florian Schulz, Concettina Sfienti, Simon Širca, Samo Štajner, Steffen Strauch, Michaela Thiel, Alexey Tyukin, Adrian Weber, *Quasi-elastic polarization-transfer measurements on the deuteron in anti-parallel kinematics*, **Phys. Lett. B,** 795, 2019, 599-605

56. W. R. Plass, T. Dickel, **I. Mardor**, S. Pietri, H. Geissel, C. Scheidenberger, D. Amanbayev, S. Ayet San Andres, J. Aysto, D. Balabanski, S. Beck, J. Bergmann, O. Cheriviakova, P. Constantin, T. Eronen, T. Grahn,

F. Greiner, E. Haettner, C. Hornung, J.-P. Hucka, A. Jokinen, A. Kankainen, I. Miskun, I. D. Moore, A. Pikthtelev, I. Pohjalainen, S. Purushothman, Z. Patyk, M. P. Reiter, A.-K. Rink, S. Rinta-Antila, A. Spataru, H. Weick, J. S. Winfield, M. I. Yavor, *The Science Case of the FRS Ion Catcher for FAIR Phase-0*, **Hyperfine Interactions** (2019) 240: 73

57. Michael Paul, Moshe Tessler, Shlomi Halfon, Tala Palchan, Leonid Weissman, Alexander Arenshtam, Dan Berkovits, Yosef Eisen, Ilan Eliahu, Gitai Feinberg, Daniel Kijel, Arik Kreisel, **Israel Mardor**, Guy Shimel, Asher Shor, Ido Silverman, *Reactions along the Astrophysical s-Process Path and Prospects for Neutron Radiotherapy with the Liquid-Lithium Target (LiLiT) at the Soreq Applied Research Accelerator Facility (SARAF)*, **European Physics Journal A** 55: 44 (2019)
EPJA Highlight

58. Ivan Miskun, Timo Dickel, **Israel Mardor**, Christine Hornung, Daler Amanbayev, Samuel Ayet San Andres, Julian Bergmann, Jens Ebert, Hans Geissel, Magdalena Gorska, Florian Greiner, Emma Haettner, Wolfgang R. Plass, Sivaji Purushothaman, Christoph Scheidenberger, Ann-Kathrin Rink, Helmut Weick, Soumya Bagchi, Paul Constantin, Satbir Kaur, Wayne Lippert, Bo Mei, Iain Moore, Jan-Hendrick Otto, Stephane Pietri, Ilkka Pohjalainen, Andrej Prochazka, Christophe Rappold, Moritz P. Reiter, Yoshiki K. Tanaka, John S. Winfield, *A Novel Method for the Measurement of Half-Lives and Decay Branching Ratios of Exotic Nuclei*, **European Physics Journal A** 55: 148 (2019)

59. Florian Greiner, Timo Dickel, Samuel Ayet San Andres, Julian Bergmann, Paul Constantin, Jens Ebert, Hans Geissel, Emma Haettner, Christine Hornung, Ivan Miskun, Wayne Lippert, **Israel Mardor**, Iain Moore, Wolfgang R Plaß, Sivaji Purushothaman, Ann-Kathrin Rink, Moritz P Reiter, Christoph Scheidenberger, Helmut Weick, *Removal of molecular contamination in low-energy RIBs by consecutive steps of isolation, dissociation and isolation*, **Nucl. Inst. Meth. B** Volume 463, 324-326 (2020)

Articles Accepted

1. T. Dickel, A. Kankainen, A. Spataru, D. Amanbayev, O. Beliuskina, S. Beck, P. Constantin, D. Benyamin, H. Geissel, L. Grof, C. Hornung, A. V. Karpov, **I. Mardor**, G. Munzenberg, D. Nichita, W. R. Plass, I. Pohjalainen, S. Purushothaman, M. Reponen , A. Rotaru, V. V. Saiko, C. Scheidenberger, J. S. Winfield, A. Zadvornaya, *Multi-nucleon transfer reactions at ion catcher facilities - a new way to produce and study heavy neutron-rich nuclei*, Accepted for publication in **Journal of Physics: Conference Series** (2020)

Articles Submitted

1. **Israel Mardor**, Timo Dickel, Daler Amanbayev, Samuel Ayet San Andrés, Sönke Beck, David Benyamin, Julian Bergmann, Paul Constantin, Alexandre Cléroux Cuillerier, Hans Geissel, Lizzy Gröf, Christine Hornung, Gabriella Kripko-Koncz, Ali Mollaebrahimi, Ivan Miskun, Wolfgang R. Plaß, Stephan Pomp, Adrian Rotaru, Christoph Scheidenberger, Goran Stanic, Christian Will, *Determining spontaneous fission properties by direct mass measurements with the FRS Ion Catcher*
Submitted to **EPJ Web of Conferences** (2019)

2. Samuel Ayet San Andres, Ali Mollaebrahimi, Timo Dickel, Julian Bergmann, Jens Ebert, Hans Geissel, Florian Greiner, Emma Haettner, Christine Hornung, Nasser Kalantar-Nayestanaki, Ivan Miskun, Wolfgang R. Plass, Sivaji Purushothaman, Ann-Kathrin Rink, Christoph Scheidenberger, Helmut Weick, Soumya Bagchi, Paul Constantin, Andrew Finlay, Satbir Kaur, Wayne Lippert, **Israel Mardor**, Bo Mei, Iain Moore, Jan-Hendrick Otto, Stephane Pietri, Ilkka Pohjalainen, Andrej Prochazka, Christophe Rappold, Moritz P. Reiter, Yoshiki K. Tanaka, John S. Winfield, *Mass and Half-Life Measurements of Neutron-Deficient Iodine Isotopes*, Submitted to **European Physics Journal A** (2019)