

CURRICULUM VITAE

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Date of Birth February 11, 1963 Al-Balqa Applied University
Place of Birth Amman, Jordan P.O.Box 2587, Amman 11941
Jordan
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Education

- Ph.D. Nuclear Physics (Nuclear Astrophysics) 2002.
Heidelberg University and Karlsruhe Institute of Technology (KIT), Germany.
- M.Sc. Physics, 1990.
University of Jordan, Faculty of Graduate Studies, Amman, Jordan.
- B.Sc. Physics, 1986.
University of Baghdad, College of Sciences, Baghdad, Iraq.

Current Position

- Vice Chairman of the Board of Directors.
Jordan Nuclear Regulatory Commission, Amman, Jordan. 2008-.
- Associate Professor.
Teaching/supervising in the M.Sc. program in nuclear physics.
Faculty of Science, Al-Balqa Applied University, Salt, Jordan. 2004-.

Positions, research and other activities

- Sabbatical leave at the University of Jordan (2010/2011).
- The establishment of a specialized M.Sc. program in Applied Nuclear Physics at Al Balqa Applied University, Salt, Jordan. 2006. The program is supported by King Abdullah II Fund for Development (KAFFD).
- Chairman of the Second International Symposium on Nuclear Energy ISNE-09. Also organized the Third and Fourth International Symposia on Nuclear Energy ISNE-10 and ISNE-11 <http://isne.bau.edu.jo/>.
- Member of SESAME users committee, Amman, Jordan. 2006-.
- Member of the Dissi Water Consultative Committee, Amman, Jordan. 2006/2007.
- Researcher. Jordan Atomic Energy Commission. March-August 2005.
- Assistant Professor, Al-Balqa Applied University, Salt, Jordan. 2004-2009.
- Research visits to the European Organization for Nuclear Research CERN, Geneva, Switzerland. 2000–2004.
- Visiting Research Scientist, Institut für Kernphysik, Forschungszentrum Karlsruhe, Germany. 1 July - 15 September 2004.
- Visiting Research Scientist, Institut für Kernphysik, Forschungszentrum Karlsruhe, Germany. December 2003.
- Research Associate, Department of Physics. University of Notre Dame, and at the Joint Institute for Nuclear Astrophysics. USA. July-November 2003.
- Research visit to the Centre de Recherches du Cyclotron, Louvain-La-Neuve, Belgium. May 2003.

- Visiting Research Scientist, Institut für Kernphysik, Forschungszentrum Karlsruhe, Germany. January-July 2003.
- Research visit to the Physikalisch-Technische Bundesanstalt, Braunschweig, Germany. April 2002.
- Research visit to the University of Notre Dame and the Joint Institute for Nuclear Astrophysics, USA. July 2001.
- Lecturer. Faculty of Applied Science, Al-Balqa Applied University, Salt, Jordan. 1997-1999.
- Scientific visit to the Institute of Nuclear Solid State Physics INFP, Forschungszentrum Karlsruhe, Germany. June-August 1997.
- Lecturer. Physics Department, University of Jordan, Amman, Jordan. 1990-1997.
- Interregional Training Course on Interfacing in Nuclear Experiments. The International Atomic Energy Agency. Held in Antananarivo, Madagascar. October-December 1991.
- Research Activities (Accelerator Applications). 1987-.
- Environmental Research Activities. 1995-1999.
- The establishment of the radiation laboratory at Al-Balqa Applied University. 1998-1999.

Awards

- Al-Balqa Applied University. Scholarship, 1999-2002.
- Forschungszentrum Karlsruhe INFP. Scientific visit, 1997.
- The University of Jordan. Teaching assistantship, 1986-1989.

References

- Dr. Franz Käppeler
Karlsruhe Institute of Technology (KIT)
Institut für Kernphysik
Postfach 3640
D-76021 Karlsruhe, Germany
- Prof. Michael Wiescher
The Joint Institute for Nuclear Astrophysics
The University of Notre Dame
225 Nieuwland Science Hall
Notre Dame, IN 46556, USA

Professional membership

- American Physical Society.
- Jordanian Physical Society.
- Jordanian Environmental Society.

Languages

- Arabic (Mother Language).
- English.
- Some German.

Courses Taught

1. Nuclear Reactor Physics (Graduate).
2. Nuclear Physics (Graduate).
3. Experimental Techniques in Nuclear Physics (Graduate).
4. Computational Physics (Graduate).
5. Theoretical Nuclear Physics (Graduate).
6. Radiation Detection and Measurement (Graduate).
7. Advanced Mathematical Physics (Graduate).
8. Advanced Statistical Physics (Graduate).
9. Accelerator Physics (Graduate).
10. Special Topics in Nuclear Physics (Graduate).
11. Undergraduate Nuclear Physics.
12. Undergraduate Statistical and Thermal Physics.
13. Undergraduate (first year) general physics courses.

Graduate Student Supervision/Co-supervision and Thesis Examining Committees

1. Monte Carlo simulation of the response of gamma spectrometers.
Mohammad Bqoor, Al-Balqa Applied University, M.Sc. thesis defended on 29/4/2006.
2. An optimized setup for tissue characterization using Compton scatter technique.
Hanan Saleh, The University of Jordan, Ph.D. dissertation defended on 17/12/2008.
3. Correction factors in gamma spectroscopy: A comparative study of different approaches.
Ektimal Nemri, the University of Jordan, M.Sc. thesis defended on 5/8/2008.
4. Solving reactor neutron diffusion equations for different geometries using the Homotopy Perturbation method.
Kafa Khasawneh, Al-Balqa Applied University, M.Sc. thesis defended on 3/8/2009.
5. Evaluation of scatter dose contribution of ^{192}Ir in brachytherapy by Monte Carlo simulation.
Eshraq Ababneh, Al-Balqa Applied University, M.Sc. thesis defended on 6/8/2009.
6. Dosimetry of small radiation beams.
Lina Abu Arida, Al-Balqa Applied University, M.Sc. thesis defended on 7/1/2010.
7. The design and calibration of a prototype for a high-resolution time-of-flight spectrometer of high-energy neutrons.
Omar Nusair, Al-Balqa Applied University, M.Sc. thesis defended on 26/5/2010.
8. ^{125}I Brachytherapy Source: Characterization of Dose Parameters and Medical Applications.
Tahani Aqrabawi, The University of Jordan, Ph.D. dissertation defended in August 2011.
9. The Calibration of *In-Situ* Gamma-Ray Spectrometers: A Comparative Study of Different Approaches.
Ahmad Al-Qararah, Al-Balqa Applied University, M.Sc. thesis defended on 23/12/2010.
10. Bragg-Curve Measurement and Simulation of Heavy-Ion Beams for Hadron Therapy Applications.
Morad Hamad, Al-Balqa Applied University, M.Sc. thesis defended on 28/12/2010.
11. Technical Nuclear Safety Study of Subcritical Assembly at Jordan University of Science and Technology using Monte Carlo Techniques and Probabilistic Risk Analysis.
Mohammad Bqoor, The University of Jordan, Ph.D. dissertation, work started in 2010.
12. Solving Multi-Group Neutron Diffusion Equations in Different Geometries using the Homotopy Perturbation Method.
Mohammad Shuqair, The University of Jordan, Ph.D. dissertation, work started in 2010.
13. Neutron-nucleus scattering using a velocity-dependent optical potential.
Mohammad Hassan, The University of Jordan, Ph.D. dissertation, work started in 2010.

Other Thesis Examining Committees (without supervision)

14. Gamma spectroscopy in ceramics used in Jordan.
Rana N. Al Faoury, M.Sc. Thesis, Al Balqa Applied University, May 31st, 2005.
15. Thermoluminescence (TL) response of doped alkali sulphates.
Awwad Mohammad Al Faoury, M.Sc. Thesis, Al Balqa Applied University, April 19th, 2006.
16. Measurement of uranium uptake by agricultural crops at Khan Al-Zabeeb area.
Samer Jamal Ahmad Al-Kharouf, M.Sc. Thesis, Al Balqa Applied University, June 7th, 2006.
17. Studies of Single and Double Electron Loss in O⁺ on He Collisions Using Cold Target Recoil Ion Momentum Spectroscopy.
Rajaie Yaser Qasem, M.Sc. Thesis, The University of Jordan, May 7th, 2008.
18. A study of natural radioactivity in drinking water in Amman, Jordan.
Sajedah M. Al-Amir, M.Sc. Thesis, Al Balqa Applied University, May 27th, 2009.
19. Non-destructive inspection of low and medium atomic number matrices using tomographic techniques.
Suhad S. Sarhan, M.Sc. Thesis, Al Balqa Applied University, July 14th, 2009.
20. Correlation of backscattered and recoil ions in violent ion-atom collisions by coincident Rutherford backscattering spectrometry.
Hanan M. Sa'adeh, Ph.D. Dissertation, The University of Jordan, December 28th, 2009.
21. Proton-neutron scattering using realistic velocity-dependent potentials.
Wafa Abu Al-Nadi, M.Sc. Thesis, The University of Jordan, December 2nd, 2010.
22. Perturbation theory for proton-neutron scattering: Perturbing the energy.
Mohammad Al-Sayed, Ph.D. Dissertation, The University of Jordan, March 10th 2011.
23. Transformation kinetics in some selenium-tellurium-tin chalcogenide glasses.
Nazem Abu-Shaweesh, M.Sc. Thesis, Al Balqa Applied University, March 24th, 2011.
24. Dependence of electrical conductivity on composition in selenium-tellurium-tin semiconducting glasses.
Fares Al-Kurdi, M.Sc. Thesis, Al Balqa Applied University, April 21st, 2011.
25. Modeling soil radon diffusion using its properties.
Islam Dalki, M.Sc. Thesis, Yarmouk University, December 29th, 2011.

Publications

Refereed Journals

- 1) Excitation function of the nuclear reaction $^{19}\text{F}(p,\alpha\gamma)^{16}\text{O}$ in the proton energy range 0.3-3.0 MeV.
S. Dababneh, K. Toukan and I. Khubeis.
Nuclear Instruments & Methods in Physics Research B 83 (1993) 319-324.
- 2) Characterization of Lead, Mercury and Gold Implanted into Magnesium.
K. Toukan, S. Dababneh, R. AbdelKarim and I. Khubeis.
Radiation Effects and Defects in Solids 143 (1997) 167-178.
- 3) Diffusion Behaviour of Gold and Mercury Implanted into Magnesium.
K. Toukan, I. Khubeis, F. Al-Zubi, M. Al-Sa'adi, S. Dababneh, E. Bakraji and O. Meyer.
Nuclear Instruments & Methods in Physics Research B 127/128 (1997) 747-751.
- 4) Radiological Safety of Food Irradiation with High Energy X-rays: Theoretical Expectations and Experimental Evidence.
O. Grégoire, M.R. Cleland, J. Mittendorfer, S. Dababneh, D.A.E. Ehlermann, X. Fan, F. Käppeler, J. Logar, J. Meissner, B. Mullier, F. Stichelbaut, D.W. Thayer.
Radiat. Phys. Chem. 67 (2003) 169-183.
- 5) Erratum to "Radiological Safety of Medical Devices Sterilized with X-rays at 7.5 MeV."
[Radiat. Phys. Chem. 67 (2003) 149-167]
O. Grégoire, M.R. Cleland, J. Mittendorfer, M. Vander Donckt, J. Meissner, S. Dababneh, F. Käppeler, D.A.E. Ehlermann.
Radiat. Phys. Chem. 68 (2003) 943.
- 6) Nucleosynthesis in TP-AGB Stars and the Production of ^{19}F .
J. Görres, S. Dababneh, A. Couture, M. Heil, F. Käppeler, H. Leiste, M. Lugaro, C. Ugalde and M. Wiescher
Nucl. Phys. A 718 (2003) 155c-158c.
- 7) Stellar He burning of ^{18}O : A measurement of low-energy resonances and their astrophysical implications.
S. Dababneh, M. Heil, F. Käppeler, J. Görres, M. Wiescher, R. Reifarth and H. Leiste
Phys. Rev. C 68 (2003) 025801.
- 8) Neutron capture cross section of ^{139}La .
S. O'Brien, S. Dababneh, M. Heil, F. Käppeler, R. Plag, R. Reifarth, R. Gallino and M. Pignatari
Phys. Rev. C 68 (2003) 035801.
- 9) Relationship between hyperdeformation, fission resonances and clustering in ^{233}Th .
Nenoff N., Beer H., Bringel P., Chmel S., Csatlós M., Dababneh S., Heil M., Hübel H., Käppeler F., Krasznahorkay A., Mergel E., Plag R., Reifarth R.
Acta Physica Hungarica New Series - Heavy Ion Physics 18 (2003) 331.

- 10) Gamma spectroscopy using two Clover detectors in close geometry.
S. Dababneh, N. Patronis, P.A. Assimakopoulos, J. Görres, M. Heil, F. Käppeler, D. Karamanis, S. O'Brien, R. Reifarh.
Nuclear Instruments and Methods in Physics Research A 517 (2004) 230-239.
- 11) Neutron capture studies on unstable ^{135}Cs for nucleosynthesis and transmutation.
N. Patronis, S. Dababneh, P.A. Assimakopoulos, R. Gallino, M. Heil, F. Käppeler, D. Karamanis, P.E. Koehler, A. Mengoni and R. Plag.
Phys. Rev. C 69 (2004) 025803.
- 12) New experimental validation of the pulse height weighting technique for capture cross-section measurements.
The n_TOF collaboration.
Nuclear Instruments and Methods in Physics Research A 521 (2004) 454-467.
- 13) Production and isobaric separation of ^{63}Ni ions for determination of the $^{62}\text{Ni}(n,\gamma)^{63}\text{Ni}$ reaction cross section at stellar temperatures
H. Nassar, S. Ghelberg, M. Paul, S. Dababneh, M. Heil, F. Käppeler, R. Plag, I. Ahmad, J.P. Greene, D.J. Henderson, C.L. Jiang, R.C. Pardo, T. Pennington, K.E. Rehm, R. Scott, S. Sinha, X. Tang, R. Vondrasek, H. Koivisto, D. Berkovits, M. Bettan, R. Reifarh, P. Collon, S. O'Brien and N. Patronis
Nucl. Phys. A 746 (2004) 613c–616c.
- 14) Stellar (n,γ) cross section of ^{62}Ni .
H. Nassar, M. Paul, I. Ahmad, D. Berkovits, M. Bettan, P. Collon, S. Dababneh, S. Ghelberg, J.P. Greene, A. Heger, M. Heil, D.J. Henderson, C.L. Jiang, F. Käppeler, H. Koivisto, S. O'Brien, R.C. Pardo, N. Patronis, T. Pennington, R. Plag, K.E. Rehm, R. Reifarh, R. Scott, S. Sinha, X. Tang, R. Vondrasek.
Phys. Rev. Lett. 94 (2005) 092504.
- 15) Measurement of the n_TOF beam profile with a micromegas detector.
The n_TOF collaboration.
Nuclear Instruments and Methods in Physics Research A 524 (2004) 102-114.
- 16) Time–energy relation of the n_TOF neutron beam: energy standards revisited.
The n_TOF collaboration.
Nuclear Instruments and Methods in Physics Research A 532 (2004) 622-630.
- 17) A Low-Mass Neutron Flux Monitor for the n_TOF Facility at CERN.
The n_TOF collaboration.
Brazilian Journal of Physics 34 (2004) 914-918.
- 18) Neutron Capture Cross Section Measurement of ^{151}Sm at the CERN Neutron Time of Flight Facility (n_TOF).
The n_TOF collaboration.
Phys. Rev. Lett. 93 (2004) 161103.

- 19) The data acquisition system of the neutron time of flight facility n_TOF at CERN.
The n_TOF collaboration.
Nuclear Instruments and Methods in Physics Research A 538 (2005) 692-702.
- 20) A neutron source to measure stellar neutron capture cross sections at $kT = 5$ keV.
M. Heil, S. Dababneh, F. Käppeler, R. Plag, A. Juseviciute, N. Winckler, R. Reifarth, and S. O'Brien.
Nucl. Phys. A 758 (2005) 529-532.
- 21) Stellar neutron capture rates of ^{14}C
R. Reifarth, M. Heil, R. Plag, U. Besserer, S. Dababneh, L. Dörr, J. Görres, R.C. Haight, F. Käppeler, A. Mengoni, S. O'Brien, N. Patronis, R.S. Rundgerg, M. Wiescher, J.B. Wilhelmy.
Nucl. Phys. A 758 (2005) 787-790.
- 22) Measurement of the $^{151}\text{Sm}(n,\gamma)^{152}\text{Sm}$ cross section at n_TOF.
The n_TOF collaboration.
Nucl. Phys. A 758 (2005) 533-536.
- 23) Measurements of the $^{90,91,92,94,96}\text{Zr}(n,\gamma)$ cross sections at n_TOF.
The n_TOF collaboration.
Nucl. Phys. A 758 (2005) 573-576.
- 24) Neutron capture cross section measurements for nuclear astrophysics at CERN n_TOF.
The n_TOF collaboration.
Nucl. Phys. A 758 (2005) 501-504.
- 25) Quasistellar spectrum for neutron activation measurements at $kT = 5$ keV.
M. Heil, S. Dababneh, A. Juseviciute, F. Käppeler, R. Plag, R. Reifarth, S. O'Brien.
Phys. Rev. C 71 (2005) 025803.
- 26) Measurement of the $^{151}\text{Sm}(n,\gamma)$ cross section from 0.6 eV to 1 MeV via the neutron time-of-flight technique at the CERN n_TOF facility.
The n_TOF collaboration.
Phys. Rev. C 73 (2006) 034604.
- 27) A new approach to the ^{176}Lu puzzle.
F. Käppeler, N. Winckler, S. Dababneh, M. Heil, S. Bisterzo, and R. Gallino.
Memorie della Società Astronomica Italiana 77 (2006) n. 3.
- 28) Lanthanum: an s - and r -process indicator.
N. Winckler, S. Dababneh, M. Heil, F. Käppeler, R. Gallino, M. Pignatari.
The Astrophysical Journal 647 (2006) 685.
- 29) Stellar (n,γ) cross sections of ^{174}Hf and radioactive ^{182}Hf .
C. Vockenhuber, I. Dillmann, M. Heil, F. Käppeler, N. Winckler, W. Kutschera, A. Wallner, M. Bichler, S. Dababneh, S. Bisterzo, R. Gallino.
Phys. Rev. C 75 (2007) 015804.

- 30) Indication for hyperdeformed cluster states in ^{233}Th .
N. Nenoff, P. Bringel, A. Bürger, S. Chmel, S. Dababneh, M. Heil, H. Hübel, F. Käppeler, A. Neußer-Neffgen, R. Plag.
European Physical Journal A 32, (2007) 165.
- 31) $^{176}\text{Lu}/^{176}\text{Hf}$: A sensitive test of s -process temperature and neutron density in AGB stars.
M. Heil, N. Winckler, S. Dababneh, F. Käppeler, K. Wisshak, S. Bisterzo, R. Gallino, A.M. Davis, T. Rauscher.
The Astrophysical Journal 673 (2008) 434.
- 32) The $^{14}\text{C}(n,\gamma)$ cross section between 10 keV and 1 MeV.
R. Reifarh, M. Heil, C. Forssén, U. Besserer, A. Couture, S. Dababneh, L. Dörr, J. Görres, R.C. Haight, F. Käppeler, A. Mengoni, S. O'Brien, N. Patronis, R. Plag, R.S. Rundberg, M. Wiescher and J.B. Wilhelmy.
Phys. Rev. C 77 (2008) 015804.
- 33) A solution of the neutron diffusion equation in hemispherical symmetry using the homotopy perturbation method.
Kafa Khasawneh, Saed Dababneh, Zaid Odibat.
Annals of Nuclear Energy 36 (2009) 1711.
- 34) Stellar (n,γ) cross sections of p -process isotopes Part I: ^{102}Pd , ^{120}Te , $^{130,132}\text{Ba}$, and ^{156}Dy .
I. Dillmann, C. Domingo-Pardo, M. Heil, F. Käppeler, S. Walter, S. Dababneh, T. Rauscher and F.-K. Thielemann.
Phys. Rev. C 81 (2010) 015801.
- 35) An alternative solution of the neutron diffusion equation in cylindrical symmetry.
Saed Dababneh, Kafa Khasawneh, Zaid Odibat.
Annals of Nuclear Energy 38 (2011) 1140.

Conference Proceedings and Abstracts

- 36) Studies of the nuclear reaction $^{19}\text{F}(p,\alpha\gamma)^{16}\text{O}$ in the proton energy range 0.3-3.0 MeV.
S.O.F. Dababneh, F. Taffal, F.M. Safi, K. Toukan, H. Fakhoury and I. Khubeis.
Proceedings of the Second International Symposium on Nuclear Astrophysics, Karlsruhe, Germany, 6-10 July (1992).
Edited by F. Käppeler and K. Wisshak. Bristol: IOP Publishing (1993) p. 155-160.
- 37) Angular distribution and yield studies of the $^{19}\text{F}(p,\alpha_0)^{16}\text{O}$ and $^7\text{Li}(p,\alpha)^4\text{He}$ nuclear reactions in the proton energy range 0.3-3.0 MeV.
F. Safi, F. Taffal, K. Toukan, S.O.F. Dababneh, H. Fakhoury and I. Khubeis.
Proceedings of the Second International Symposium on Nuclear Astrophysics, Karlsruhe, Germany, 6-10 July (1992).
Edited by F. Käppeler and K. Wisshak. Bristol: IOP Publishing (1993) p. 161-168.
- 38) α -capture on ^{18}O and its astrophysical implications.
J. Görres, M. Wiescher, S. Dababneh, M. Heil, R. Reifarh and F. Käppeler.
1st Joint Meeting of the Nuclear Physics Divisions of the American Physical Society and the Japanese Physical Society, Wailea, Maui, Hawaii, October 17-20, 2001.

- 39) Reaction rates for helium burning.
 J. Görres, S. Dababneh, C. Ugalde, F. Käppeler and M. Wiescher
 Proceedings of the 11th Workshop on "Nuclear Astrophysics", Ringberg Castle, Tegernsee, Germany, February 11-16, 2002.
 Wolfgang Hillebrandt and Ewald Müller (Eds.). MPA/P13, Garching b. München, Germany: Max-Planck-Institut für Astrophysik, 2002, p.75–78.
- 40) The $^{18}\text{O}(\alpha,\gamma)$ rate during stellar He burning.
 S. Dababneh, J. Görres, M. Heil, F. Käppeler, R. Reifarth and M. Wiescher
 Spring Meeting of the German Physical Society, Münster, Germany, March 11-15 2002.
- 41) Relationship between hyperdeformation, fission resonances and clustering in ^{233}Th .
 N. Nenoff, H. Beer, P. Bringel, S. Chmel, M. Csatlos, S. Dababneh, M. Heil, H. Hübel, F. Käppeler, A. Krasznahorkay, E. Mergel, R. Plag and R. Reifarth.
 Proceedings of the Symposium on Nuclear Clusters, Schloss Rauischholzhausen, August 5-9, 2002.
- 42) Neutron capture measurements at the CERN n_TOF facility for ADS applications.
 The n_TOF collaboration.
 Eleventh International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics.
 Prague, Czech Republic, September 2 - 6, 2002.
- 43) The $^{135}\text{Cs}(n,\gamma)$ cross section at 30 and 500 keV.
 N. Patronis, P.A. Assimakopoulos, D. Karamanis, F. Käppeler, S. Dababneh, M. Heil, R. Plag and P.E. Koehler.
 n_TOF Winter School on Astrophysics, ADS, and First Results. Les Houches, France, February 24-28 2003.
- 44) The (n,γ) cross section of ^{139}La at 30 keV.
 S. Dababneh, S. O'Brien, M. Heil, F. Käppeler, R. Plag and R. Reifarth.
 n_TOF Winter School on Astrophysics, ADS, and First Results. Les Houches, France, February 24-28 2003.
- 45) The $^{135}\text{Cs}(n,\gamma)$ cross section at 30, 200 and 500 keV.
 S. Dababneh, P.A. Assimakopoulos, S. Harisopoulos, M. Heil, F. Käppeler, D. Karamanis, N. Patronis and R. Plag.
 Spring Meeting of the German Physical Society, Tübingen, Germany, March 17-21 2003.
- 46) Production and isobaric separation of ^{63}Ni ions for determination of the $^{62}\text{Ni}(n,\gamma)^{63}\text{Ni}$ reaction cross section at stellar temperatures.
 H. Nasar, M. Paul, S. Dababneh, M. Heil, F. Käppeler, R. Plag, I. Ahmad, J.P. Greene, D.J. Henderson, C.L. Jiang, R.C. Pardo, T. Pennington, K.E. Rehm, R. Scott, R. Vondrasek, H. Koivisto, S. O'Brien, N. Patronis, R. Reifarth.
 6th International Conference on Radioactive Nuclear Beams (RNB6), Argonne, Ill., USA, September 22-26 2003.

- 47) Stellar He burning of ^{18}O .
S. Dababneh, M. Heil, F. Käppeler, J. Görres, M. Wiescher, R. Reifarth, H. Leiste.
2003 Fall Meeting of the Nuclear Physics Division of the American Physical Society,
Tucson, Arizona, USA. October 30 – November 01, 2003.
- 48) The (n,γ) cross section of ^{135}Cs .
The n_TOF collaboration meeting. Vienna University of Technology, Vienna, Austria.
December 11-12, 2003.
- 49) A neutron source for activation measurements in a stellar spectrum at $kT=8$ keV.
M. Heil, S. Dababneh, F. Käppeler, S. O'Brien, R. Plag and R. Reifarth.
Spring Meeting of the German Physical Society, Köln, Germany, March 8-12 2004.
- 50) A neutron source for activation measurements in a stellar spectrum at $kT=8$ keV.
M. Heil, S. Dababneh, F. Käppeler, S. O'Brien, R. Plag and R. Reifarth.
12th Workshop on "Nuclear Astrophysics", Ringberg Castle at Lake Tegernsee, March 22-27
2004.
- 51) A neutron source for activation measurements in a stellar spectrum at $kT=5$ keV.
Michael Heil, Saed Dababneh, Franz Käppeler, Shawn O'Brien, Ralf Plag, Rene Reifarth
International Conference for Nuclear Data in Science and Technology, organized by Los
Alamos National Laboratory, Santa Fe, New Mexico, USA, Sep. 26 – Oct. 1, 2004.
- 52) Measurements of neutron capture cross-sections at n_TOF.
The n_TOF collaboration
In: 6th Latin American Symposium on Nuclear Physics and Applications, Iguazu, Argentina,
3-7 Oct 2005.
Published in: AIP Conf. Proc. 884 (2007), pp.265-271.
- 53) A new approach to the ^{176}Lu puzzle.
F. Käppeler, N. Winckler, S. Dababneh, M. Heil, S. Bisterzo, and R. Gallino.
VIII Torino workshop on nucleosynthesis in AGB stars, Granada, February 6-10, 2006.
Published in: Memorie della Società Astronomica Italiana, Vol. 77 n. 3, 2006.
Editors: Carlos Abia and Imma Domínguez.
- 54) Neutron studies on hafnium: s abundances and r residuals.
Franz Käppeler, Saed Dababneh, Iris Dillmann, Michael Heil, Friedrich Voss, Nicolas
Winckler, Klaus Wisshak, Christoph Vockenhuber, Walter Kutschera, Anton Wallner,
Max Bichler, Leonid Kazakov, Frantisek Becvar, Milan Krlicka, Roberto Gallino, and Marco
Pignatari.
Spring meeting of the German Physical Society, Munich, Germany, 20-24/3/2006.
- 55) Measurement of the stellar (n,γ) cross section of ^{182}Hf .
C. Vockenhuber, I. Dillmann, M. Heil, F. Käppeler, N. Winckler, W. Kutschera,
A. Wallner, M. Bichler, S. Dababneh, R. Gallino and S. Bisterzo.
Nuclei in the Cosmos IX, CERN, Geneva, Switzerland, 25-30 June, 2006.

- 56) Measurement of the partial (n, γ) cross section to $^{176}\text{Lu}^m$ at s process temperatures.
N. Winckler, S. Dababneh, M. Heil, F. Käppeler, S. Bisterzo and R. Gallino.
Nuclei in the Cosmos IX, CERN, Geneva, Switzerland, 25-30 June, 2006.
Published in: Proceedings of Science. PoS (NIC-IX) 192.
- 57) Direct measurement of stellar neutron capture rates of ^{14}C and comparison with the Coulomb breakup method.
R. Reifarth, M. Heil, R. Plag, U. Besserer, A. Couture, S. Dababneh, L. Dörr, C. Forssén, J. Görres, R. Haight, A. Mengoni, S. O'Brien, N. Patronis, R. Rundberg, E. Uberseder, M. Wiescher, J. Wilhelmy.
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- 3) Some Improved Methodologies in Gamma Spectroscopy.
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- 5) Monte Carlo Techniques in Radiation Detection and Measurement.
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- 6) Radionuclides in Dissi Water.
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- 7) Manipulated Gamma Spectroscopy: Methodologies and Applications.
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- 10) Some Modern Trends in Radiation Measurement: Relevance to Radiation Measurements
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Meeting of the RMCC Advisory Council, Middle East Scientific Institute for Security,
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- 11) Pillars of Jordan's Nuclear Energy Program: Strength or Weakness?
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- 12) JNRC perspective on Jordan's nuclear workforce.
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