

Curriculum Vitae

N. Al-Dahan

Name: Nawras Mohammed Shaheed Al-Dahan

Date of Birth: 01/01/1978

Place of Birth: Kerbala

Nationality: Iraqi

Material Status: Married

Language: Arabic and English

Passport No.: A7806288

Academic Rank:

- a- Assistant Lecturer, 16/08/2003.
- b- Lecturer, 16/05/2006.
- c- Assistant Professor, 09/07/2012.
- d- Professor, 09/07/2017.

E-mail: nawrasaldahan@uokerbala.edu.iq
nawras.aldahan@alkafeeluc.edu.iq

Place of Work:

Department of Physics - College of Science - University of Kerbala (2003- till now).

Qualification:

- 1- B.Sc. (Physics), University of Babylon 1999, Iraq.
- 2- M.Sc. (Nuclear Physics), University of Babylon 2002, Iraq.
- 3- Ph.D. (Nuclear Physics), University of Surrey 2010, UK.

Positions Held:

- 1-Assistant of Physics Department Head, College of Science, University of Kerbala (2003-2007).
- 2- Science College Council secretariat, University of Kerbala (2003-2007).
- 3- Head of Physics Department, College of Science, University of Kerbala (15/1/2011 - 21/9/2014).
- 4- Director of Scholarship and Cultural Relations Department, University of Kerbala (01/09/2014-11/01/2016).
- 5- Vice President for Scientific Affairs, University of Kerbala, (20/9/2015 – 24/9/2015) Also from (17/5/2016 – 31/5/2016).
- 5- Dean of Science College, University of Kerbala, (19/11/2015 – 30/10/2017).
- 6- Dean of Alkafeel University College, (31/10/2017 – Till now).

Courses Taught

A- Undergraduate:

- 1- Atomic Physics at University of Kerbala, Iraq.
- 2- Classical Mechanics at University of Kerbala, Iraq.
- 3- Nuclear Spectroscopy at University of Kerbala, Iraq.
- 4- Quantum Mechanics at University of Kerbala, Iraq.
- 5- Nuclear Physics at University of Surrey, UK.
- 6- Principle of Physics at University of Surrey, UK.
- 7- Atomic Molecular Quantum Physics at University of Surrey, UK.

B-Postgraduate: M.Sc.

- 1- Radiation and Environmental Protection Laboratory at University of Surrey, UK.
- 2- Radiation Detection and Instrumentation Laboratory at University of Surrey, UK.
- 3- Research Procedure Course at University of Kerbala, Iraq.

Title of the M.Sc. Thesis:

“The effect of the scattered photons from the surrounding on the energy spectrum of the scintillation detector NaI(Tl)”, University of Babylon 2002, Iraq.

Title of the Ph.D. Thesis:

“Isomer and β -delayed gamma-ray spectroscopy for structure studies of heavy, neutron-rich nuclei”, University of Surrey 2010, UK.

Supervision of graduate students:

M.Sc. Students:

- 1- **Khalid G. Mutashar**, *Study of nuclear structure of $^{202-204}\text{Pt}$ isotopes by shell model application using OXBASH program*, Department of Physics, College of Science, University of Babylon, 2011.
- 2- **Yousra Abd Al-Hassan Kadhim**, *Nuclear Structure Study of Even-Even $^{184-194}\text{Os}$ Isotopes Using IBM-1*, Department of Physics, College of Science, University of Kerbala, 2015.

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<https://www.scopus.com/authid/detail.uri?authorId=26324747400>

Publications:

- 1- Dr.K. H. Al-Attiah , [N. Al-Dahan](#), **The effect of surroundings on the scattered photons in the nuclear experiments**, *Journal of Babylon University*, No.001313, (2002).
 - 2- Dr. K. H. Al-Attiah , [N. Al-Dahan](#), **Using NaI (Tl) detectors in study the background radiation in Babylon University**, *Journal of Babylon University*, No. 001311, (2002).
 - 3- [N. Al-Dahan](#), **The effect of the magnet rod position to the crystal in the response function of the scintillation detector NaI(Tl)**, *Journal of Kerbala University*, No. 1301, (2004).
 - 4- F.S. Al-Taie and [N. Al-Dahan](#), **The total and photo peak relative efficiency measurement for NaI(Tl)detector**, *Journal of Kerbala University*, No.1732, (2004).
 - 5- Dr. K. H. Al-Attiah, [N. Al-Dahan](#) et. al., **Study the radioactivity for Ra-226 isotope for samples of the underground water and lesses using the spectroscopy analysis technique**, *Journal of Babylon University*, No. 001854, (2005).
 - 6- [N. Al-Dahan](#), Dr .K. H. Al-Attiah and F.S. Al-Taie, **Effect of the distance of surroundings material on the signal /noise ratio of the NaI(Tl) detectors**, *Journal of Kerbala University*, No. 373, (2006).
 - 7- F.S. Al-Taie, [N. Al-Dahan](#) et al., **Measurement of build up factor for the Gamma ray in the single shielding**, *Journal of Kerbala University*, No. 372, (2006).
 - 8- P. H. Regan, N. Alkhomashi, [N. Al-Dahan](#) et al., **First results with the RISING active stopper** , *International Journal of Modern Physics E*, Vol. 17, P. 8-20 (2008).
<http://www.worldscinet.com/ijmpe/17/17supp01/S0218301308011719.html>
- Thomson Reuters Impact Factor: 1.799
- 9- [N. Al-Dahan](#) et al., **Isomeric states in ^{208}Hg and ^{209}Tl populated in fragmentation of ^{238}U** , *Acta Physica Polonica A*, Vol. 40, No. 3, P. 871, (2009).
<http://th-www.if.uj.edu.pl/acta/vol40/pdf/v40p0871.pdf>
- Thomson Reuters Impact Factor: 0.85
- 10- [N. Al-Dahan](#) et al., **Structure of $N \geq 126$ nuclei produced in fragmentation of ^{238}U** , *AIP Conference Proceedings*, Vol. 1090, P. 145, (2009).

<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=APCPCS001090000001000145000001&idtype=cvips&gifs=yes&ref=no>

11- A.M. Denis Bacelar, A.M. Bruce, Zs. Podolyák, S. Lalkovski, S. Pietri, [N. Al-Dahan](#) et al., **Angular Momentum Population in Fragmentation Reactions**, *Acta Physica Polonica A*, Vol. 40, No. 3, P. 889, (2009).

<http://th-www.if.uj.edu.pl/acta/vol40/pdf/v40p0889.pdf>

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12- [N. Al-Dahan](#), Zs. Podolyák, P. H. Regan et al., **Nuclear structure “southeast” of ^{208}Pb : Isomeric states in ^{208}Hg and ^{209}Tl** , *Physical Review C* 80, 061302(R) (2009).

<http://prc.aps.org/abstract/PRC/v80/i6/e061302>

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13- P. H. Regan, N. Alkhomashi, [N. Al-Dahan](#) et al., **New Insights into the Structure of Exotic Nuclei Using the RISING Active Stopper**, *AIP Conference Proceedings*, Vol. 1090, P. 122 (2009).

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14- A.Y. Deo, Zs. Podolyák, P. M. Walker, A. Algora, B. Rubio, J. Agramunt, L. M. Fraile, [N. Al-Dahan](#) et al., **Structures of ^{201}Po and ^{205}Rn from EC/ β + -decay studies**, *Physical Review C* 81, 024322 (2010).

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15- F.I. Al-Taie, [N. Al-Dahan](#) and M.A. Radhy , **Calculations of the energy levels and the electric quadrupole transition probabilities of the $^{148,150,152,154,156,158}\text{Sm}$ isotopes using IBA-1 and IBA-2 model**, *Journal of Kerbala University*, 2010.

16- R.S. Kempley, Zs. Podolyák, D. Bazzacco, A. Gadea, E. Farnea J.J. Valiente-Dobón, D. Mengonig, F. Recchia, E. Sahin, A. Gottardo L. Corradi, E. Fioretto, S. Szilner, V. Anagnostatou, [N. Al-Dahan](#) et al., **CROSS-COINCIDENCES IN THE $^{136}\text{Xe}+^{208}\text{Pb}$ DEEP-INELASTIC REACTION**, *Acta Physica Polonica A*, Vol. 42, No.3-4, P.717, (2011).

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17- Huda Al-Sulaiti, N.Alkhomashi, [N.Al-Dahan](#) et al, **Determination of the natural radioactivity in Qatari building materials using high-resolution gamma-ray spectrometry** , *Nuclear Instruments Method in Physics Research A*, Vol. 652, P. 915-919, (2011) .

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18- A . Gottardo , j.j Valiente -Dobon , G.Benzoni , R. Nicolini , J. A lcantara Nunez , A .Algora, [N. AL- Dahan](#) et al., **Isomers in neutron -rich lead isotopes populated via the fragmentation of ^{238}U at 1 GeV A**, *Journal of Physics G* , Vol. 312, P. 092026, (2011).

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19- Huda Al-Sulaiti, Tabassum Nasir, K.S. AlMugren, N.Alkhomashi, [N.Al-Dahan](#) et. al., **Determination of the natural radioactivity levels in north west of Dukhan, Qatar using high-resolution gamma-ray spectrometry**, *Applied Radiation and Isotopes*, Vol.70, P.1344, (2012).

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24- G. Benzoni, A.I. Morales, J.J. Valiente-Dobon, A. Gottardo, A. Bracco, F. Camera, F.C.L. Crespi, A.M. Corsi, S. Leoni, B. Million, R. Nicolini, O. Wieland, A. Gadea, S. Lunardi, P. Boutachkov, A.M. Bruce, M. Gorska, J. Grebosz, S. Pietri, Zs. Podolyak, M. Pfutzner, P.H. Regan, H. Weick, J. Alcantara Nunez, A. Algora, [N. Al-Dahan](#) et al., **First measurement of beta decay half-lives in neutron-rich Tl and Bi isotopes**, *Physics Letters B* Vol.715, P. 293–297 (2012).

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26- F. I. Sharrad, H. Y. Abdullah, [N. Al-Dahan](#), A. A. Mohammed-Ali, A. A. Okunov, H. Abu Kassim, **Shape Transition and Collective Excitations in Neutron-Rich $^{170-178}\text{Yb}$ Nuclei**, Romanian Journal of Physics Vol. 57, P. 1346 (2012).

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28- F. I. Sharrad, H. Y. Abdullah, [N. AL-Dahan](#), N. M. Umran, A. A. OKHUNOV, H. Abu KASSIM, **Low-lying states of ^{184}W and ^{184}Os nuclei**, *Chinese Physics C* Vol. 37, No. 3, P. 034101 (2013).

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29- M. Bowry, A. Prochazka, A. M. Bruce, R. Knobel, M. Pfitzner, Zs. Podolyak, H. Weick, S. Pietri, [N. Al-Dahan](#), A. M. Denis Bacelar, I. Kojouharov, W. Plaß, E. C. Simpson, J. Kurcewicz, M. Bunce, N. Alkhomashi, G. F. Farrelly, T. Kubo, M. Pomorski, B. Sitar, N. Kurz, B. Riese, P. Spiller, J. J. Valiente Dobon, J. Gerl, P. H. Regan, P. R. P. Allegro, M. Gorska, Yu. A. Litvinov, M. V. Ricciardi, J. Stadlmann, J. S. Winfield, F. Farinon, J. Benlliure, A. Gottardo, E. Merchan, K.-H. Schmidt, P. Strmen, B. Sun, H.-J. Wollersheim, H. Geissel, G. Benzoni, R. Janik, B. Pfeiffer, C. Scheidenberger, S. Terashima, J. Grebosz, I. Mukha, C. Nociforo, P. Boutachkov, N. Gregor, F. Naqvi, H. Schaffner, I. Tanihata, and P. J. Woods, **Population of high-spin isomeric states following fragmentation of ^{238}U** , *Physical Review C* **88**, 024611 (2013).

<http://prc.aps.org/abstract/PRC/v88/i2/e024611>

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30 - AI Morales, G Benzoni, A Gottardo, JJ Valiente-Dobón, N Blasi, A Bracco, F Camera, FCL Crespi, A Corsi, S Leoni, B Million, R Nicolini, O Wieland, A Gadea, S Lunardi, M Górska, PH Regan, Zs Podolyák, M Pfützner, S Pietri, P Boutachkov, H Weick, J Grebosz, AM Bruce, J Alcántara Núñez, A Algora, [N. Al-Dahan](#), Y Ayyad, N Alkhomashi, PRP Allegro, D Bazzacco, J Benlliure, M Bowry, M Bunce, E Casarejos, ML Cortes, AM Denis Bacelar, AY Deo, G de Angelis, C Domingo-Pardo, M Doncel, Zs Dombradi, T Engert, K Eppinger, GF Farrelly, F Farinon, E Farnea, H Geissel, J Gerl, N Goel, E Gregor, T Habermann, R Hoischen, R Janik, S Klupp, I Kojouharov, N Kurz, S Mandal, R Menegazzo, D Mengoni, DR Napoli, F Naqvi, C Nociforo, A Prochazka, W Prokopowicz, F Recchia, RV Ribas, MW Reed, D Rudolph, E Sahin, H Schaffner, A Sharma, B Sitar, D Siwal, K Steiger, P Strmen, TPD Swan, I Szarka, CA Ur, PM Walker, H-J Wollersheim; **β -decay studies of neutron-rich Tl, Pb, and Bi isotopes**, *Physical Review C* **89**, 014324, (2014).

<http://journals.aps.org/prc/abstract/10.1103/PhysRevC.89.014324>

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<http://journals.aps.org/prl/abstract/10.1103/PhysRevLett.113.022702#authors>

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<http://www.worldscientific.com/doi/abs/10.1142/S0218301314500463?src=recsys&>

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T. P. D. Swan, J. J. Valiente-Dobon, A. Bracco, P. Boutachkov, F. C. L. Crespi, J. Gerl, M. Gorska, S. Pietri, P. M. Walker and H.-J. Wollersheim, **First measurement of the α -decay half-life of ^{206}Au** , *Europhysics Letters* **111**, 52001 (2015).

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41- [N. Al-Dahan](#); **Descriptive study of the even-even actinide nuclei $^{230-234}\text{Th}$ isotopes using IBM-1**, *Chinese Physics C* **41**, 064105 (2017).

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42- Huda Al-Sulaiti, K.S. Al Mugren, D.A. Bradley, P.H. Regan, T. Santawamaitre, D. Malain, A. Habib, Tabassum Nasir, N. Alkhomashi, N. Al-Dahan, M. Al-Dosari, S. Bukhari; **An assessment of the natural radioactivity distribution and radiation hazard in soil samples from Qatar using high-resolution gamma-ray spectrometry**, *Radiation Physics and Chemistry*, in Press (2017).

<http://www.sciencedirect.com/science/article/pii/S0969806X17304887>

Conferences:

- 1- *The 3rd Scientific Symposium on Environmental Pollution in Babylon City*, College of Science, University of Babylon, 23th -25th July 2002, Iraq.
- 2- *The First Scientific Symposium for postgraduates studies in Physics Department*, University of Babylon, February 2003, Iraq.
- 3- *The Second National Typical Conference in Physics*, University of Mousel, 24th -25th November 2002, Iraq.
- 4- *The 4th International Symposium on use of nuclear techniques in environmental studies*, University of Yarmouk, 13th -15th September (2004), Irbid, Jordan.
- 5- *IoP Nuclear Physics Conference at Liverpool University*, 1st -3th April 2008, Liverpool, UK.
- 6- *XIII. International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics (CGS)*, 25th - 29th August 2008, Cologne, Germany.
- 7- *Zakopane Conference on Nuclear Physics*, 1st – 7th September 2008, Poland.
- 8- *IoP Nuclear Physics Conference at Birmingham University*, 6th - 8th April 2009, Birmingham, UK.
- 9- *IoP Nuclear Physics Conference at Edinburgh University*, 19th - 21th April 2010, Edinburgh, UK.
- 10 - *The First scientific Conference of the College of Science at Kerbala University*, 13-14 March 2013, Kerbala, Iraq.
- 11- *The First Scientific Conference of Undergraduate Students of the College of Science*

at *Kerbala University*, 10 April 2013, Kerbala, Iraq.

11- *The Second Scientific Conference of the College of Science at Kerbala University*, 26-27 February 2014, Kerbala, Iraq.

13- *The Second Scientific Conference of Undergraduate Students of the College of Science at Kerbala University*, 8 April 2013, Kerbala, Iraq.

14- *Al-Ameed Second Global Academic Conference* at Alabbas Holy Shrine, 9-11 October 2014, Kerbala, Iraq.

15- *The Third Scientific Conference of the College of Science at Kerbala University*, 26-27 February 2015, Kerbala, Iraq.

16- *The first environmental conference of civil society organizations*, Organization of development Iraqi environmental, 23 April 2016, Kerbala, Iraq.

17- *International Conference on Medical Education of the College of Medicine at University of Kerbala*, 25-26 September 2016, Kerbala, Iraq.

Postgraduate Training Schools Attended:

1- *Introduction course to LD equipment at the LD didactic training center*, 20th – 23rd February 2006, HÜRTH, Germany.

2- *Radiation Protection Induction Course*, 2th November 2007, University of Surrey, Guildford, UK.

3- *Mini School on the Physics of NUSTAR at the University of Surrey*, 8th - 11th of June 2009, Guildford, UK.

4- *UK STFC Nuclear Physics Summer School, University of Leicester*, 12th - 23th of September 2009, Leicester, UK.

5- *Nuclear Shell Model and Interactions Course*, 1st -3th of March 2010, CERN, Switzerland.

Other International Nuclear Physics Meetings Attended:

- 1- *Annual NuSTAR Meeting at GSI, 23rd -27th of March 2009, GSI, Germany.*
- 2- *Workshop on Nuclear Isomers: Structure and Applications, 19th – 21th of May 2009, University of Surrey, UK.*

Experimental Fieldwork in Nuclear Physics:

- 1- *¹⁰⁰Sn: Isomer and Beta Decay Studies Around N=Z=50 GSI, Germany, February 2008.*
- 2- *Isomer studies of N=128 Isotones GSI, Germany, April-May 2008*
- 3- *²⁰⁵Au, Long Lived isomeric decays in N=126 nuclei CERN, Switzerland, July 2008*
- 4- *Search for New Seniority Isomer Decays in Neutron Rich Lead Nuclei with N>128 GSI, Germany, September 2009.*
- 5- *²⁰⁸Tl Studied using Deep Inelastic Reactions with a Xe Beam INFN Legnaro, Italy, May 2010.*