

## Curriculum Vitae of Dr. Khalifeh AbuSaleem

**Name:** **Khalifeh AbuSaleem**

**Current Position:** **Professor of Nuclear Physics, The University of Jordan**

**Former Position:** **Secretary General &  
Commissioner for Nuclear Sciences and Applications  
Council Member of Arab Atomic Energy Agency  
(AAEA),  
Jordan Atomic Energy Commission  
Assistance Chair of SJNC, SESAME**

**Former Position:** **Commissioner for Nuclear Research & Chair for the  
Utilization and Research Steering Committee of the  
Jordan Research and Training Reactor (JRTR),  
Jordan Atomic Energy Commission  
Assistance Chair of SJNC, SESAME**

**Former Position:** **Commissioner for Nuclear Research &  
Manager for the Jordan Research and Training  
Reactor (JRTR), Jordan Atomic Energy Commission  
Assistance Chair of SJNC, SESAME**

**Academic Position:** **Professor of Nuclear Physics, The University of Jordan**

**Date of Birth:** **December 1, 1958**

**Nationality:** **Jordanian**

**Education:** **Ph.D. (Experimental Nuclear Physics), Illinois Institute of  
Technology, Chicago-USA, 2002.  
M. Sc. (Nuclear Physics), Banaras Hindu University,  
Banaras-India, 1991.  
B.Sc. (Physics), King Sa'ud University, Riyadh-Saudi  
Arabia, 1982.**

**Ph.D. Project:** **Nucleon Alignments and Collective Degrees of Freedom in  
Actinide Nuclei**

**Ms. Project:** **Semi Classical Approach to Heavy Ions Fusion**

## **Experience:**

### **April 2022-current:**

Professor at the University of Jordan

### **September 2012-April 2022:**

Associate Professor at The University of Jordan.

### **March 2018- April 2020:**

- **Secretary General at Jordan Atomic Energy Commission (JAEC)**
- **Commissioner for Nuclear Sciences and Applications at Jordan Atomic Energy Commission (JAEC)**
- **Associate Professor for Experimental Nuclear Physics at the University of Jordan.**
- **Member of Arab Atomic Energy Agency (AAEA) Council**
- **Assistant Chairman for Jordanian National Committee for SESAME Center**
- **Member of IGORR Steering Committee**

### **January 2017- March 2018:**

- **Commissioner for Nuclear Research at the Jordan Atomic Energy Commission (JAEC)**
- **Chairman of Jordan Research and Training Reactor (JRTR) utilization steering committee**
- **Member of JRTR safety committee**
- **Associate Professor for Experimental Nuclear Physics at the University of Jordan.**
- **Assistant Chairman for Jordanian National Committee for SESAME Center**
- **Member of IGORR Steering Committee**

### **June 2012 – December 2016:**

- **Commissioner for Nuclear Research at Jordan Atomic Energy Commission (JAEC).**
- **Manager for the Jordan Research and Training Reactor (JRTR).**
- **Associate Professor for Experimental Nuclear Physics at the University of Jordan.**

- Assistant Chairman for Jordanian National Committee for SESAME Center

My duties at JAEC are:

As a Secretary General, my duties are:

- a. Supervising the Strategic Plan of JAEC and devise the implementation plans within the designed time framework, performance indicators, actions to achieve the goals and objectives of JAEC, increase efficiency, and improve the work environment
- b. Supervising JAEC employees, guide and incent them, and encourage innovation
- c. Putting in place proper regulations, legislative and administrative, and encouraging team work environment
- d. Following the performance of JAEC to improve the administration efficiency
- e. Following the Human Resources of JAEC to develop and simply and computerize work procedures
- f. Supervising the development of the services and implementing the Quality Assurance Programs

2- I have been the Manager for the JRTR during construction, commissioning, initial operation Phases: The position is vital for supervising the activities related to the Project. In particular:

- Design of the JRTR;
- Licensing of the JRTR;
- Training and recruiting manpower (Capacity Building);
- Financing of the JRTR;
- Strategic planning for the utilization of the JRTR;
- Construction of Radwaste Treatment Facility (RTF);
- Day-to-Day Works of the Project.

3- Following the commissioning of the Jordan Subcritical Assembly (JSA).

4- Establishing Nuclear Research Program based on the national nuclear research facilities. These facilities include:

- The JRTR that is being built at the Jordan University for Science and

**Technology (JUST),**

- **The Jordan Subcritical Assembly (JSA) at JUST,**
- **The Analytical Laboratories at JAEC, and**
- **The SESAME Facility.**

**September 2007 – June 2012**

**Assistant Professor of nuclear physics at the Department of Physics of the University of Jordan. Responsibilities include:**

- **Teaching Physics and specialized courses in nuclear physics (undergraduate and graduate),**
- **Establishing nuclear physics labs (undergraduate and graduate) and supervising the labs,**
- **Developing syllabi for the Masters and Ph.D. programs,**
- **Supervising theses at M.Sc. and Ph.D. levels,**
- **Conducting research in the fields of interest.**

**February 2007 – September 2007:**

As an **Advisor for the Minister of Energy and Mineral Resources** I have been working on deciding the suitable power reactor to satisfy the national needs of electric power and potable water. In addition, issues related to the national uranium reserve have been a major interest.

**January 2003 – January 2006:**

In a **Post-Doctoral** position at the Advanced Photon Source of Argonne National Laboratory, I have been working on developing a new kind of gamma/x-ray lens (using crystal diffraction technique) that has an improved resolving power and detection efficiency. I have carried out several experiments using synchrotron radiation covering the energy range of 90–150 keV. In addition to the x-rays experiments, gamma rays from  $\text{Co}^{57}$  source have been used to explore the response of the crystals under investigation. The results of these experiments are being published in the refereed journals. The new technique will have impact on

diagnostic medical technique. In addition to the medical applications, the new technique can serve other fields such as astrophysics where the signal caused by the high-energy gamma rays is very weak compared to the background.

**June 1999 - December 2002:**

I have been a **Research Assistant** in the Physics Division of ANL in the field of low energy nuclear physics emphasizing on the nuclear structure of the heaviest stable nuclei (the actinide region). The actinide nuclei (targets) have been prepared on site with enrichment of more than 90%. Several experiments have been carried out where the actinide targets have been bombarded with the heavy, odd-even nucleus (Bismuth 209) from the Argonne Tandem Linac Accelerator System (ATLAS facility). The projectile nuclei excite the target nuclei to levels of high energy and angular momentum using the long range Coulomb force. In addition, the projectile energy allowed the exchange of nucleon(s) between the projectile and the target nuclei. The excited nuclei can then deexcite by emitting successive gamma rays. The emitted gamma rays have been sorted and interrogated according to several criteria set to achieve a specific goal. Thus, the nuclear structure of most of the actinide nuclei has been investigated.

**October 1997 – March 1998:**

In a fellowship sponsored by the IAEA, I was trained on a safety code of a zero power research reactor at the Ohio State University. In addition, I attended courses on Nuclear Reactor Theory and Neutron Diffusion and Moderation at the Nuclear Engineering Department of Ohio State University.

**October 1991 - September 1997:**

Training and Information Section, **Section Head** at Nuclear Energy Department, Ministry of Energy and Mineral Resources, Amman-Jordan.

• **Responsibilities:**

- Planning, designing and running nuclear projects at national and regional levels. Collaborating in the design work of the zero power reactor for training purpose that had been submitted to the IAEA is an example.

- Organizing, conducting, and lecturing in training courses, workshops, seminars, meetings, and conferences related to peaceful applications of radiation and radioisotopes in Medicine, Agriculture, Industry, etc.
- Collaborating with the national organizations in planning the related activities of nuclear techniques.
- Collaborating with the IAEA in planning activities at national and regional levels.
- Receiving and transmitting bibliographic information through the International Nuclear Information System, INIS, of the IAEA.

**April 1982 – October 91:**

**Teacher of physics** (teaching physics and supervising science labs.), Ministry of Education, Amman-Jordan.

**Research of Interest:**

- **Nuclear Data Evaluation:** This project aims to precisely evaluate nuclear structure and decay data of the nuclear mass chains.
- **Nuclear structure of heavy and super heavy ions:** The project targets the actinide nuclei (Thorium, Uranium, Neptunium, Plutonium, Americium, Curium ...etc) in addition to the recently synthesized isotopes with  $A > 250$ .
- **Steering of X-rays and nuclear radiation:** The research focuses on using crystal diffraction technique for the steering and focusing of X-rays,  $\gamma$ -rays and neutrons. In addition, applications of Synchrotron light in physics, cultural heritage and materials science are of major interest

**Memberships:**

- Board of Graduate Studies' Faculty at Jordan University of Science and Technology,
- IGORR Steering committee,
- Steering committee of the Department of Nuclear Engineering (JUST),
- American Physical Society,
- ATLAS Facility of Argonne National Lab.,
- Assistant chairman: SESAME Jordanian National Committees,

- International Network of Nuclear Structure and Decay Data (NSDD) Evaluators.

## **Partial List of Scientific Activities:**

- Research Reactors: Addressing Challenges and Opportunities to Ensure Effectiveness and Sustainability, Argentina, 25–29 November 2019
- Joint Conference of IGORR and RRFM, December 4-7, 2017, Sydney
- World Science Forum, Dead Sea-Jordan-2017
- International Meeting on the Application of the Code of Conduct on the Safety of Reactors, May 15-19, 2017, Vienna-IAEA
- Consultancy meeting on the feasibility studies of research reactors, May 30-June 3, 2016, IAEA-Vienna
- Workshop on Establishing and Implementing a Periodic Safety Review Process for Research Reactors, April 18-22, 2016, IAEA-Vienna
- nd201611-16 / 09, Bruges Belgium
- The 20<sup>th</sup> Meeting of the Nuclear Structure and Decay Data (NSDD), 27-31 Jan. 2013.
- Technical Meeting on the Role of Research Reactors and Related Infrastructure in the Development of Nuclear Energy Programs, 4-7 Dec 2012, Vienna.
- Member of Jordanian delegation to Indonesia, 30 Oct.- 1 Nov. 2012.
- Member of Jordanian delegation to Ukraine, 5-9 Aug. 2012.
- Audit visit to KDC and some factories participating in the JRTR Project.
- Nuclear Data Week at Brookhaven National Lab, Upton-USA, Nov. 16-18, 2011.
- Local organizer of the 9<sup>th</sup> SESAME Users' Meeting, Amman, Nov. 12-14, 2011.
- International Network of Nuclear Structure and Decay Data Evaluators, Vienna, April 4-8, 2011.
- Workshop on Nuclear Structure and Decay Data: Theory and Evaluation, Trieste-Italy, October 11-15, 2010.
- Organizer of the 6<sup>th</sup> National JNC Workshop on SESAME, the University of Jordan-Amman, May 6, 2010.
- Scientific Visit to the Physics Group at McMaster University-Canada, January 22-29, 2010.
- Organizer (local organizing and scientific committees) of the 8<sup>th</sup> SESAME Users' Meeting, 19-21/11/2009, Petra- Jordan.
- International Forum on Nuclear Energy and Nuclear Proliferation, 22-24/6/2009, Amman-Jordan.
- Meeting with IAEA, 28-31/5/2007, JAEC, Amman-Jordan. To discuss the

- feasibility of using nuclear energy for power generation and water desalination.
- Advanced Photon Source User Meeting, Argonne National Laboratory, Chicago /IL, May 2005.
  - APS Spring Meeting, Albuquerque-NM, 19-24/4/2002.
  - Mini Course on Experimental Techniques for Rare Isotopes, Michigan State University, East Lansing-MI, 30/7-10/8/2001.
  - Gordon Research Conference on Nuclear Chemistry, New London-NH, 18-22/6/2001.
  - Conference on Nuclear Structure 2000, Michigan State University, East Lansing-MI, 15-19/8/2000.
  - Training Course on nuclear instrumentation, Istanbul, 30/10-09/12/1996.
  - Workshop on safe use of industrial facilities, Prague, 24/08 – 04/09, 1992.
  - *Other seminars, training courses and meetings at the national, regional and international levels.*

## **Publications:**

1. High Resolution Powder Diffractometer Facility (HRPDF) for Low and Medium Power Research Reactor, Jordan Journal of Physics, Volume 16, Number 4, 2023  
Khalifeh AbuSaleem
2. Pre-commissioning baseline activity levels in plant leaves and cow milk samples around the Jordan Research and Training Reactor  
K. AbuSaleem, *et. al*  
Journal of Radioanalytical and Nuclear Chemistry (2021)330:77-82, September 13, 2021,
3. IS RAW SPRING WATER SAFE FOR DRINKING? A CASE STUDY FOR SPRING WATER QUALITY IN JORDAN  
K. AbuSaleem, *et. al.*  
Fresenius Environmental Bulletin 29(12/2020):10602-16010
4. JRTR, the First Research Reactor in Jordan: Results of Commissioning in Light of Safety Enhancement Following Fukushima-Daiichi Accident  
**K. AbuSaleem**  
Jordan Journal of Physics, Volume 12, Number 3, 2019. pp. 255-268
5. Monitoring of Radionuclides in the Surface Soil Around the Jordan Research and Training Reactor (JRTR) Before Commissioning  
**K. AbuSaleem, et. al.**  
Journal of Radioanalytical and Nuclear Chemistry, **318**, pages1229–1235(2018)
6. Feasibility Study Preparation for New Research Reactor Programmes,

- K. AbuSaleem, *et al.*  
IAEA Nuclear Energy Series, No. NG-T-3.18, Vienna, September 2018
7. “Semi-Quantitative Analysis for Pottery Fragments Excavated at Udruh Site, Jordan Using Non-destructive SR-XRF Analysis Employing Multivariate Statistical methods”  
K. Abusaleem, *et al.*  
*Jordan Journal of Physics*, Volume 10, Number 3, 2017
  8. “Non-Destructive SR-XRF Analysis of Ancient Mamluk-Ayyubid Glazed Pottery Fragments from Karak Castle, Jordan”  
A. Aldrabee, K. **AbuSaleem**, *et al.*  
*Jordan Journal of Physics*, Volume 8, Number 2, 2015.
  9. EGAF: Measurement and Analysis of Gamma-ray Cross Sections  
R.B. Firestone, K. **AbuSaleem**, *et al.*  
*Nuclear Data Sheets*, Volume 119, Pages 79–87, 2014.
  10. “Nuclear Data Sheets for A=227”  
**K. AbuSaleem**, *et al.*  
*Nuclear Data Sheets*, volume 132, pages 257-354. 2016
  11. **K. AbuSaleem**. Nuclear Data Sheets for A=228  
*Nuclear Data Sheets*, Volume 116, Pages 163-262, (2014).
  12. “EGAF: Measurement and Analysis of Gamma-Ray Cross Sections”  
R.B. Firestone, **K. AbuSaleem**, *et al.*  
*ND*, 2013.
  13. “Nuclear Data Sheets for A=250”  
**K. AbuSaleem**  
In preparation for *Nuclear Data Sheets*.
  14. “Nuclear Data Sheets for A=249”  
**K. Abusaleem**  
*Nuclear Data Sheets*, 112 (2011) 2129-2197.
  15. “Nuclear Data Sheets for <sup>251</sup>Md”  
**K. Abusaleem**, *et al.*  
*ENSDF*, www.nndc.bnl.gov, January 31, 2011.
  16. “Nuclear Data Sheets for <sup>143</sup>Sb”  
**K. Abusaleem**, *et al.*  
*ENSDF*, www.nndc.bnl.gov, January 31, 2011.
  17. “Nuclear Data Sheets for A=71”  
**K. Abusaleem** and Balraj Singh  
*Nuclear Data Sheets*, 112 (2011) 133-273.
  18. “<sup>89</sup>Y(n,γ) E=THERMAL”

**K. AbuSaleem, et al.**

Presented at the *Cross Section Evaluation Working Group (CSEWG)*, BNL,  
Nov 16-18, 2011.

19. “Rotational alignments in  $^{235}\text{Np}$  and the possible role of  $j_{15/2}$  neutrons”  
A.M. Hurst, **K. Abu Saleem, et al.**  
*PRC81*, 014-312 (2010).
20. “K-hindered decay of a six-quasiparticle isomer in  $^{176}\text{Hf}$ ”  
G. Mukherjee, **K. Abu Saleem, et al.**  
*PRC82*, 054-316 (2010).
21. “High Diffraction Efficiency, Broadband, Diffraction Crystals for Use in  
Crystal Diffraction Lenses”  
Robert K. Smither, **Khaliefeh Abu Saleem, et al.**  
*Experimental Astronomy*, V 20, issue 1-3, (2006), 201-210.
22. “Diffraction Efficiency and Diffraction Bandwidth of Thermal Gradient and  
Composition Gradient Crystals”  
R. Smither, **K. Abu Saleem, et al.**  
*Review of Scientific Journal*, V 76, issue 12, (2005) 123-107.
23. “High-Spin States in  $^{179}\text{Au}$  - Spectroscopy of Shape-Driving Orbitals Beyond  
the Neutron Midshell”  
W. F. Mueller, Abu Saleem, *et al.*  
*Phys. Rev. C* 69, 064-315 (2004).
24. “Alignments in the Odd-Proton Actinides  $^{237}\text{Np}$  and  $^{241}\text{Am}$ ”  
**K. Abu Saleem, et al.**  
*Phys. Rev. C* 70, 024-310 (2004).
25. “Shape Coexistence and Band Crossings in  $^{174}\text{Pt}$ ”  
T. M. Goon, **K. Abu Saleem, et al.**  
*Phys. Rev. C* 70, 024-310 (2004).
26. “Highly-Deformed Bands in  $^{175}\text{Hf}$ ”  
D. T. Scholes, **K. Abu Saleem, et al.**  
*Phys. Rev. C* 70, 054-314 (2004).
27. “Performance of a Be Refractive Lens”  
R. K. Smither, A. M. Khounsary, D.C. Mancini, and **K. Abu Saleem**  
*Synchrotron Radiation Instrumentation: Eighth International Conference*,  
2004 AIP 705, (2004) 716-719.
28. “Shape coexistence at the outer edges of stability”  
Carpenter MP, **K. Abu Saleem, et al.**  
*AIP Conference Proceedings*, V 656, (2003) 55-62.

29. Linking of Yrast and Excited Superdeformed Bands in Dy<sup>152</sup>,  
Lauritsen T, **K. S. Abu Saleem**, *et al.*  
*AIP Conference Proceedings*, V 656, (2003) 9-16.
30. "Identification of Excited States in Dy<sup>140</sup>"  
Cullen DM, **K. Abu Saleem**, *et al.*  
*AIP Conference Proceedings*, V 681, (2003)187-192.
31. "Possible Triaxial Superdeformation in Hf<sup>174</sup>"  
Hartley DJ, *et al.*  
*AIP Conference Proceedings*, V 656, (2003) 177-183.
32. "Limits of the Energy-Spin Phase Space Beyond the Proton Drip Line: Entry Distributions of Pt and Au Isobars"  
M. B. Smith, **K. Abu Saleem**, *et al.*  
*Phys. Lett. B* 551, 262 (2003).
33. "In-Beam Gamma-Ray Spectroscopy Of 172Pt"  
M. Danchev, **K. Abu Saleem**, *et al.*  
*Phys. Rev. C* 67, 014-312 (2003).
34. "Extending the Region of Triaxial Superdeformation: Candidate TSD Bands in <sup>174</sup>Hf"  
M. Djongolov, **K. Abu Saleem**, *et al.*  
*Phys. Lett. B* 560, 24 (2003).
35. "Recoil-Gated Plunger Lifetime Measurements in <sup>188</sup>Pb"  
A. Dewald, **K. Abu Saleem**, *et al.*  
*Phys. Rev. C* 68, 034-314 (2003).
36. "Limits of the energy-spin phase space beyond the proton drip line: Entry distribution pf Pt and Au isobars"  
Cizewski JA, **K. Abu Saleem**, *et al.*  
*AIP Conference Proceedings*, V 656, (2003) 91-97.
37. "Direct Decay from the Superdeformed Band to the Yrast Line in <sup>152</sup><sub>66</sub>Dy<sub>86</sub>"  
T. Lauritsen, **K. Abu Saleem**, *et al.*  
*Phys. Rev. Lett.* 88, 042-501 (2002).
38. "First Observation of Excited Structures in Neutron-Deficient <sup>179</sup>Hg: Evidence for Multiple Shape Coexistence"  
F. G. Kondev, **K. Abu Saleem**, *et al.*  
*Phys. Lett. B* 528, 221 (2002)
39. "Identification of Excited States in <sup>140</sup>Dy"  
D. M. Cullen, **K. Abu Saleem**, *et al.*  
*Phys. Lett. B* 529, 42 (2002).

40. “Octupole Vibration In Superdeformed  $^{152}_{66}\text{Dy}_{86}$ ”  
 T. Lauritsen, **K. Abu Saleem**, et al.  
*Phys. Rev. Lett.* 89, 28-2501 (2002).
41. “Systematic Study of Energy--Spin Entry Distributions at the Proton Dripline in the  $A \sim 170$  Region”  
 M.B. Smith, **K. Abu Saleem**, et al.  
*Nucl. Phys. A* 682, 433c (2001).
42. “First Observation of Excited Structures in Neutron Deficient, Odd-Mass Pt, Au and Hg Nuclei”  
 F. G. Kondev, **K. Abu Saleem**, et al.  
*Nucl. Phys. A* 682, 487c (2001).
43. “Identification of Excited Structures in Proton Unbound Nuclei 173, 175, 177Au: Shape Co--Existence and Intruder Bands”  
 F. G. Kondev, **K. Abu Saleem**, et al.  
*Phys. Lett. B* 512, 268 (2001).
44. “Interplay between Octupole and Quasiparticle Excitations in  $^{178}\text{Hg}$  and  $^{180}\text{Hg}$ ”  
 F. G. Kondev, **K. Abu Saleem**, et al.  
*Phys. Rev. C* 62, 044-305 (2000).
45. “Thermal neutron cross sections of Yttrium isotopes”  
**K. AbuSaleem**, et al.  
 In preparation for *PRC*.

## Publications in XUNDL Database-BNL

62.  $^{115}\text{Sn}$  (A, NG) dataset  
**K. Abusaleem** and B. Singh  
 XUNDL-NNDC, May 25, 2011.
61.  $^{54}\text{Fe}$  ( $^{23}\text{Na}$ , A2PG) dataset  
**K. Abusaleem** and B. Singh  
 XUNDL-NNDC, April 28, 2011.
60.  $^{232}\text{Th}$  (G, G') dataset  
**K. Abusaleem**, J. Chen and B. Singh  
 XUNDL-NNDC, April 14, 2011.
59.  $^{173}\text{Yb}$  ( $^{19}\text{F}$ , 4NG) dataset  
**K. Abusaleem** and B. Singh  
 XUNDL-NNDC, December 20, 2010.
58.  $^{28}\text{Si}$  ( $^{32}\text{S}$ , APNG) dataset  
**K. Abusaleem** and B. Singh

- XUNDL-NNDC, November 22, 2010.
57.  $^{208}\text{Pb}$  ( $^{18}\text{O}$ ,  $^{14}\text{CG}$ ) dataset  
**K. Abusaleem** and B. Singh  
XUNDL-NNDC, November 9, 2010.
  56.  $^{110}\text{Pd}$  ( $^7\text{Li}$ , 5NG) dataset  
B.Singh and **K. Abusaleem**  
XUNDL-NNDC, October 27, 2010.
  55.  $^{247}\text{Cm}$  from  $^{248}\text{Cm}$  ( $^{209}\text{Bi}$ ,  $^{210}\text{Bi}$ )  
**K. Abusaleem** and B. Singh  
XUNDL-NNDC, October 25, 2010.
  54.  $^{249}\text{Cm}$  from  $^{248}\text{Cm}$  ( $^{209}\text{Bi}$ ,  $^{208}\text{Bi}$ )  
**K. Abusaleem** and B. Singh  
XUNDL-NNDC, October 25, 2010.
  53.  $^{249}\text{Cf}$  from  $^{249}\text{Cf}$  ( $^{209}\text{Bi}$ ,  $^{209}\text{Bi}$ )  
**K. Abusaleem** and B. Singh  
XUNDL-NNDC, October 25, 2010.
  52.  $^{120}\text{Sn}$  ( $^51\text{V}$ , 3NG) dataset  
**K. Abusaleem** and B. Singh  
XUNDL-NNDC, September 28, 2010.
  51.  $^{156}\text{Gd}$  (P, D), (P, DG) dataset  
**K. Abusaleem** and B.Singh  
XUNDL-NNDC, July 15, 2010.
  50.  $^{63}\text{Cu}$  (e, e') Nuclear data  
**K. Abusaleem** and B.Singh  
XUNDL, ENSDF, NNDC, May 20, 2010.
  49.  $^{65}\text{Cu}$  (e, e') Nuclear data  
**K. Abusaleem** and B.Singh  
XUNDL, ENSDF, NNDC, May 20, 2010.
  48.  $^{105}\text{Rh}$  Nuclear Data from Beta Decay of 4.44 Hour Level in  $^{105}\text{Ru}$   
**K. Abusaleem** and B.Singh  
XUNDL, ENSDF, NNDC, May 1, 2010.
  47.  $^{96}\text{Mo}$  Nuclear Data from Beta Decay of 4.28 Day Level in  $^{96}\text{Tc}$   
**K. Abusaleem** and B.Singh  
XUNDL, ENSDF, NNDC, May 1, 2010.
  46. Beta Decay of 35.3 Hour Level in  $^{105}\text{Rh}$  into  $^{105}\text{Ru}$   
**K. Abusaleem** and B.Singh  
XUNDL, ENSDF, NNDC, May 1, 2010.
  45. 39.2 Day Level of  $^{103}\text{Ru}$  Beta Decay to  $^{103}\text{Rh}$   
**K. Abusaleem** and B.Singh  
XUNDL, ENSDF, NNDC, May 1, 2010.

44.  $^{97}\text{Tc}$  Nuclear Data from 2.83 Day  $^{97}\text{Ru}$  Electron Capture Decay  
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, April 25, 2010.
43.  $^{257}\text{Db}$  Nuclear Data from Alpha Decay of  $^{11.8}\text{ms}$  Level  $^{261}\text{Bh}$   
B. Singh and **K. Abusaleem**  
XUNDL, ENSDF, NNDC, April 15, 2010.
42.  $^{261}\text{Bh}$  Nuclear Data from  $^{209}\text{Bi}$  ( $^{54}\text{Cr}$ , 2n) Reaction  
B. Singh and **K. Abusaleem**  
XUNDL, ENSDF, NNDC, April 15, 2010
41.  $^{177}\text{Hg}$  data from Alpha Decay of the 36 ms Level in  $^{181}\text{Pb}$   
B. Singh and **K. Abusaleem**  
XUNDL, ENSDF, NNDC, April 7, 2010.
40.  $^{176}\text{Hg}$  data from Alpha Decay of the 4.2 ms Level in  $^{180}\text{Pb}$   
B. Singh and **K. Abusaleem**  
XUNDL, ENSDF, NNDC, April 7, 2010.
39.  $^{172}\text{Pt}$  data from Alpha Decay of the 20 ms Level in  $^{172}\text{Pt}$   
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, April 7, 2010.
38.  $^{168}\text{Os}$  data from Alpha Decay of the 100 ms Level in  $^{172}\text{Pt}$   
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, April 7, 2010.
37.  $^{140}\text{Cs}$  data from Spontaneous Fission of  $^{252}\text{Cf}$   
**K. Abusaleem** *et al.*  
XUNDL, ENSDF, NNDC, March 20, 2010.
36. Alpha decay of  $^{243}\text{Es}$  23 second level  
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, March 18, 2010.
35. Electron capture of 17.8 S  $^{242}\text{Es}$  level to  $^{242}\text{Cf}$   
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, March 18, 2010.
34.  $^{243}\text{Es}$  data from Alpha decay of 1.2 S level of  $^{247}\text{Md}$   
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, March 18, 2010.
33.  $^{246}\text{Fm}$  data from electron capture of 4.4 S level of  
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, March 18, 2010.
32. Alpha decay of 0.9 second  $^{246}\text{Md}$  level to  $^{242}\text{Es}$  ground state  
**K. Abusaleem** and B. Singh  
XUNDL, ENSDF, NNDC, March 18, 2010
31.  $^{168}\text{Ir}$  Data from  $^{172}\text{Au}$  Alpha Decay  
B. Singh and **K. Abusaleem**

- XUNDL, ENSDF, NNDC, March 7, 2010
30.  $^{96}\text{Ru}$  ( $^{78}\text{Kr}$ , PNG)  
B. Singh and **K. Abusaleem**  
XUNDL, ENSDF, NNDC, March 7, 2010.
  29.  $^{168}\text{Ir}$  Data from  $^{172}\text{Au}$  Alpha Decay  
B. Singh and **K. Abusaleem**  
XUNDL, NNDC, March 7, 2010.
  28.  $^{164}\text{Re}$  Data from  $^{168}\text{Ir}$  0.22 s Level Alpha Decay  
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  27.  $^{164}\text{Re}$  Data from  $^{168}\text{Ir}$  160 ms Level Alpha Decay  
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  26.  $^{168}\text{Ir}$  Data from  $^{172}\text{Au}$  Alpha Decay  
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  25.  $^{144}\text{Cs}$  data from spontaneous fission of  $^{248}\text{Cm}$   
**K. Abusaleem** and B. Singh  
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  24.  $^{181}\text{Ta}$  ( $^{18}\text{O}$ ,  $^{16}\text{O}$ ) Reaction Evaluation  
**K. Abusaleem** and B. Singh  
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  23.  $^{127}\text{Sb}$  data from  $^{176}\text{Yb}$  ( $^{136}\text{Xe}$ , XG) reaction  
**K. Abusaleem** and B. Singh  
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  22.  $^{142}\text{Cs}$  data from spontaneous fission of  $^{248}\text{Cm}$   
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  21.  $^{127}\text{Sb}$  data from  $^{176}\text{Yb}$  ( $^{136}\text{Xe}$ , XG) reaction  
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  20.  $^{251}\text{Cf}$  from  $^{250}\text{Cf}$  (D, P)  
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  19.  $^{249}\text{Cm}$  from  $^{248}\text{Cm}$  ( $^4\text{He}$ ,  $^3\text{He}$ )  
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  18.  $^{40}\text{K}$  data from  $^{40}\text{Ar}$  (P, N) reaction  
**K. Abusaleem** and B. Singh  
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17.  $^{24}\text{Mg}$  (P, T) Nuclear data  
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16. Nuclear data of  $^{125}\text{Te}$  isotope from Coulomb excitation  
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15.  $^{95}\text{Mo}$  (T, P) Reaction data  
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14.  $^{140}\text{Ce}$  (A, A'G) Reaction data  
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13.  $^{138}\text{Ba}$  (A, A'G) Reaction data  
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11.  $^{99}\text{Ru}$  ( $^3\text{He}$ ,  $2\text{N}\Gamma$ )  $^{100}\text{Pd}$  Reaction Evaluation  
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10.  $^{231}\text{Ac}$  Nuclear Structure from  $^{231}\text{Ra}$  Beta Decay  
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9.  $^{41}\text{Ar}$  Data from  $^{44}\text{Ar}$  (D, P)  $^{45}\text{Ar}$  Reaction  
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7.  $^{142}\text{Gd}$  Data Evaluation from  $^{99}\text{Ru}$  ( $^{48}\text{Tl}$ ,  $2\text{P}3\text{NG}$ ) Reaction  
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6.  $^{51}\text{V}$  ( $^{20}\text{Ne}$ , XG) Reaction Evaluation  
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5.  $^{100}\text{Mn}$  ( $^{40}\text{Ar}$ ,  $4\text{NG}$ )  $^{136}\text{Nd}$  Reaction Evaluation  
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XUNDL, ENSDF, NNDC, September 29, 2008.
4.  $^{35}\text{P}$  Data Evaluation  $^{208}\text{Pb}$  ( $^{36}\text{S}$ , XG) Reaction  
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- XUNDL, ENSDF, NNDC, September 29, 2008.
3.  $^{136}\text{Pm}$  Data from  $^{54}\text{Fe}$  ( $^{92}\text{Mo}$ , XG) Reaction  
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  1.  $^{198}\text{Tl}$  Nuclear Data from  $^{197}\text{Au}$  ( $\alpha$ , 3NG) Reaction  
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## Contributed Papers at Meetings and Other Publications:

- 1) Enhancement of the Safety of the Jordan Research and Training Reactor (JRTR)  
**Khalifeh AbuSaleem** et al  
IGORR-2017, Sydney, 4-7 Dec., 2017
- 2) Commissioning of the Jordan Research and Training Reactor (JRTR)  
**Khalifeh AbuSaleem** and Yazan Atrash  
IGORR-2017, Sydney, 4-7 Dec., 2017
- 3) Comparison evaluation for the total neutron cross section of  $^{250}\text{Cf}$   
**Khalifeh AbuSaleem** et al  
ND2016, Belgium, 12-16 Sept, 2016
- 4) Opportunities at the Jordanian Research and Training Reactor (JRTR)  
**K. AbuSaleem**  
**Hanaro Symposium, May 11-12, 2015**
- 5) INFLUENCE OF CRITICAL HEAT FLUX CORRELATIONS ON SAFETY ANALYSIS OF RESEARCH REACTORS WITH NARROW RECTANGULAR FUEL CHANNELS  
A. Rawashdeh, **K. AbuSaleem**, et al.  
*RRFM, 2016.*
- 6) JRTR INITIAL CRITICALITY CALCULATIONS AND NUCLEAR COMMISSIONING TESTS  
Mustafa K. Jaradat, **Khalifeh Abu Saleem**, et al.  
*RRFM, 2015.*
- 7) ESTIMATING BURNUP OF MTR FUEL USING THE LEAST SQUARES FITTING METHOD  
Luay M. Alawneh, **Khalifeh AbuSaleem**, et al.  
*RRFM, 2015.*
- 8) INTERPLAY BETWEEN OCTUPOLE AND QUASIPARTICLE EXCITATIONS IN NEUTRON DEFICIENT Pt AND Hg NUCLEI  
F. G. Kondev, **K. Abu Saleem**, et al.

*Nuclear Structure 2000 Conference, East Lansing, MI, August 15-19, 2000, Book of Abstracts.*

- 9) ENTRY DISTRIBUTIONS AND FUSION DYNAMICS IN THE RADIATIVE CAPTURE REACTION OF  $^{90}\text{Zr} + ^{90}\text{Zr}$   
F. G. Kondev, **K. Abu Saleem**, et al.  
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- 10) FIRST OBSERVATION OF EXCITED STRUCTURES IN NEUTRON DEFICIENT, ODD-MASS Pt, Au AND Hg NUCLEI  
F. G. Kondev, **K. Abu Saleem**, et al.  
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- 11) COMPETITION BETWEEN INTRINSIC AND COLLECTIVE STRUCTURES AT THE EXTREME OF SENIORITY IN  $^{175}\text{Hf}$   
F. G. Kondev, **K. Abu Saleem**, et al.  
*Nuclear Structure 2000 Conference, East Lansing, MI, August 15-19, 2000, Book of Abstracts.*
- 12) SYSTEMATIC STUDY OF ENERGY-SPIN ENTRY DISTRIBUTIONS AT THE PROTON DRIPLINE IN THE  $A \sim 170$  REGION  
M. B. Smith, **K. Abu Saleem**, et al.  
*Nuclear Structure 2000 Conference, East Lansing, MI, August 15-19, 2000, Book of Abstracts.*
- 13) TOWARD THE EXTREMES OF SPIN AND SENIORITY IN  $^{174}\text{Hf}$   
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- 14) HIGH-SENIORITY INTRINSIC AND COLLECTIVE STRUCTURES IN  $^{175}\text{Hf}$   
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- 17) HIGH-SPIN STATES IN  $^{174}\text{Pt}$   
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