Curriculum Vitae of Dr. Khalifeh Abusaleem

Name:	**Khalifeh Abusaleem**
Academic Position:	**Assistant Professor of Nuclear Physics, University of Jordan**
Date of Birth:	**December 1, 1958**
Nationality:	**Jordanian**
Address:	**University of Jordan,** **Amman 11942, Jordan**
	Tel. Office: 962 6 5355000 **Tel. Home: 962 5 3554721** **E-mail: k.abusaleem@ju.edu.jo**

Education:	**Ph.D. (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:

September 2007 – present

I hold the rank of 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 thesises 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. Several experiments have been carried out using synchrotron radiation covering the energy range of 90–150 keV. In addition to the x-rays experiments, gamma rays from 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 had been training on 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

October 91 - September 97:

Section Head/Nuclear Energy Department of Ministry of Energy and Mineral Resources/Amman-Jordan.

Responsibilities:

- Planning, Designing and running nuclear projects at national and regional levels. Designing a project to use a zero power reactor for training purposes 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 International Atomic Energy Agency, 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 82 – October 91:

Teacher of physics, Ministry of Education, Amman-Jordan.

- Teaching physics and supervising science labs.

Research of Interest:

- **Nuclear Data Evaluation:** This project aims to precise evaluate nuclear structure properties of isotopes
- **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 nuclear radiation:** The research will be focused on using crystal diffraction technique for the steering and focusing of nuclear radiation. In addition, applications of Synchrotron light in physics and materials science are of major interest

Memberships:

- American Physical Society
- ATLAS facility of Argonne National Lab.
- Assistant chairman : SESAME Jordanian National Committees

Partial List of Scientific Activities:

- Organizer of the 6th 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 8th 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, 5/28-31/2007, 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 05*
- *Conference on Nuclear Structure 2000, Michigan State University, East Lansing-MI, 8/15-19/2000*
- *Gordon Research Conference on Nuclear Chemistry, New London-NH, 6/18-22/01*
- *Mini Course on Experimental Techniques for Rare Isotopes, Michigan State University, East Lansing-MI, 7/30-8/10/01*
- *APS Spring Meeting, Albuquerque-NM, 4/19-24/02*
- *Workshop on safe use of industrial facilities, Prague, 08/24 – 09/04, 1992*
- *Training Course on nuclear instrumentation, Istanbul, 10/30-12/9/1996*
- *Fellowship on Reactor Safety Analysis, Ohio State University, Columbus, Ohio, Oct.97 –March 98.*
- *Seminars, training courses and meetings at the national, regional and international levels.*

Publications:

1. Evaluation of A=71 mass chain nuclear data
   K. Abusaleem and Balraj Singh
   Submitted to Nuclear Data Sheets

2. Rotational alignments in ^{235}Np and the possible role of $j_{15/2}$ neutrons

   K. Abu Saleem *et al.*

   PRC81, 014312 (2010)

3. Evaluation of A=249 mass chain nuclear data

   K. Abusaleem

   In preparation for Nuclear Data Sheets

Nuclear Data Evaluation

1. ^{63}Cu(e,e') Nuclear data Nuclear
   K. Abusaleem and B.Singh
   XUNDL, ENSDF, NNDC, May 20, 2010

2. ^{65}Cu(e,e') Nuclear data
   K. Abusaleem and B.Singh
   XUNDL, ENSDF, NNDC, May 20, 2010

3. ^{105}Rh Nuclear Data from Beta Decay of 4.44 Hour Level in^{105} Ru
   K. Abusaleem and B.Singh
   XUNDL, ENSDF, NNDC, May 1, 2010

4. ^{96}Mo Nuclear Data from Beta Decay of 4.28 Day Level in ^{96} Tc
   K. Abusaleem and B.Singh
   XUNDL, ENSDF, NNDC, May 1, 2010

5. Beta Decay of 35.3 Hour Level in ^{105}Rh into ^{105}Ru
   K. Abusaleem and B.Singh
   XUNDL, ENSDF, NNDC, May 1, 2010

6. 39.2 Day Level of ^{103}Ru Beta Decay to ^{103}Rh
   K. Abusaleem and B.Singh
   XUNDL, ENSDF, NNDC, May 1, 2010

7. ^{97}Tc Nuclear Data from 2.83 Day ^{97} Ru Electron Capture Decay
   K. Abusaleem and B.Singh
   XUNDL, ENSDF, NNDC, April 25, 2010

8. ^{257}Db Nuclear Data from Alpha Decay of $^{11.8}$ ms Level ^{261}Bh
   B. Singh and **K. Abusaleem**
   XUNDL, ENSDF, NNDC, April 15, 2010

9. ^{261}Bh Nuclear Data from ^{209}Bi(^{54}Cr,2n) Reaction
   B. Singh and **K. Abusaleem**

XUNDL, ENSDF, NNDC, April 15, 2010

10. ^{177}Hg data from Alpha Decay of the 36 ms Level in ^{181}Pb
B. Singh and **K. Abusaleem**
XUNDL, ENSDF, NNDC, April 7, 2010

11. ^{176}Hg data from Alpha Decay of the 4.2 ms Level in ^{180}Pb
B. Singh and **K. Abusaleem**
XUNDL, ENSDF, NNDC, April 7, 2010

12. ^{172}Pt data from Alpha Decay of the 20 ms Level in ^{172}Pt
K. Abusaleem *and B. Singh*
XUNDL, ENSDF, NNDC, April 7, 2010

13. ^{168}Os data from Alpha Decay of the 100 ms Level in ^{172}Pt
K. Abusaleem *and B. Singh*
XUNDL, ENSDF, NNDC, April 7, 2010

14. ^{140}Cs data from Spontaneous Fission of ^{252}Cf
K. Abusaleem *et al.*
XUNDL, ENSDF, NNDC, March 20, 2010

15. Alpha decay of ^{243}Es 23 second level
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, March 18, 2010

16. Electron capture of 17.8 S ^{242}Es level to ^{242}Cf
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, March 18, 2010

17. ^{243}Es data from Alpha decay of 1.2 S level of ^{247}Md
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, March 18, 2010

18. ^{246}Fm data from electron capture of 4.4 S level of
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, March 18, 2010

19. Alpha decay of 0.9 second ^{246}Md level to ^{242}Es ground state
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, March 18, 2010

20. ^{168}Ir Data from ^{172}Au Alpha Decay
B. Singh and **K. Abusaleem**
XUNDL, ENSDF, NNDC, March 7, 2010

21. ^{96}RU(^{78}Kr,PNG)
B. Singh and **K. Abusaleem**
XUNDL, ENSDF, NNDC, March 7, 2010

22. ^{168}Ir Data from ^{172}Au Alpha Decay
B. Singh and **K. Abusaleem**
XUNDL, NNDC, March 7, 2010

23. ^{164}Re Data from ^{168}Ir 0.22 s Level Alpha Decay
B. Singh and **K. Abusaleem**
XUNDL, NNDC, March 7, 2010

24. ^{164}Re Data from ^{168}Ir 160 ms Level Alpha Decay
B. Singh and **K. Abusaleem**
XUNDL, NNDC, March 7, 2010

25. ^{168}Ir Data from ^{172}Au Alpha Decay
B. Singh and **K. Abusaleem**
XUNDL, NNDC, March 7, 2010

26. ^{144}Cs data from spontaneous fission of ^{248}Cm
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, January 12, 2010

27. ^{181}Ta(^{18}O,^{16}O) Reaction Evaluation
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, March 3, 2010

28. ^{127}Sb data from ^{176}YB(^{136}Xe,XG) reaction
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, January 6, 2010

29. ^{142}Cs data from spontaneous fission of ^{248}Cm
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, January 12, 2010

30. ^{127}Sb data from ^{176}YB(^{136}Xe,XG) reaction
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, January 6, 2010

31. ^{251}CF from ^{250}Cf(D,P)
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, December 27, 2009

32. ^{249}CM from ^{248}Cm(^{4}He,^{3}He)
K. Abusaleem and B. Singh

XUNDL, ENSDF, NNDC, December 27, 2009

33. ^{40}K data from ^{40}Ar(P,N) reaction
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, December 17, 2009

34. ^{24}Mg(P,T) Nuclear data
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, November 27, 2009

35. Nuclear data of ^{125}Te isotope from Coulomb excitation
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, November 16, 2009

36. ^{95}Mo(T,P) Reaction data
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, November 11, 2009

37. ^{140}Ce(A,A'G) Reaction data
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, October 8, 2009

38. ^{138}Ba(A,A'G) Reaction data
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, October 8, 2009

39. ^{181}Ta(^{18}O,^{16}Oγ) Reaction Evaluation
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, March 3, 2009

40. ^{99}Ru(^{3}He,2NΓ)^{100}Pd Reaction Evaluation
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, February 18, 2009

41. ^{231}Ac Nuclear Structure from ^{231}Ra Beta Decay
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, September 10, 2008

42. ^{41}Ar Data from ^{44}Ar(D,P)^{45}Ar Reaction
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, September 18, 2008

43. ^{44}Ar(D,P)^{45}Ar Reaction Evaluation
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, September 18, 2008

44. ^{142}Gd Data Evaluation from ^{99}Ru(^{48}Tl,2P3NG) Reaction
K. Abusaleem
XUNDL, ENSDF, NNDC, September 2008

45. ^{51}V(^{20}Ne,XG) Reaction Evaluation
K. Abusaleem
XUNDL, ENSDF, NNDC, August 21, 2008

46. ^{100}Mn(^{40}Ar,4NG)^{136}Nd Reaction Evaluation
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, September 29, 2008

47. ^{35}P Data Evaluation ^{208}Pb(^{36}S,XG) Reaction
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, September 29, 2008

48. ^{136}Pm Data from ^{54}Fe(^{92}Mo,XG) Reaction
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, September 18, 2008

49. ^{100}Mo(^{20}Ne,α5NG)^{111}Sn Reaction Evaluation
K. Abusaleem and B. Singh
XUNDL, ENSDF, NNDC, September 18, 2008

50. ^{198}Tl Nuclear Data from ^{197}Au(α,3NG) Reaction
K. Abusaleem
XUNDL, ENSDF, NNDC, August 22, 2008

OLD JOURNAL ARTICLES

1) INTERPLAY BETWEEN OCTUPOLE AND QUASIPARTICLE EXCITATIONS IN ^{178}Hg AND ^{180}Hg
F. G. Kondev, R. V. F. Janssens, M. P. Carpenter, **K. Abu Saleem**, I. Ahmad, M. Alcorta, H. Amro, P. Bhattacharyya, L. T. Brown, J. Caggiano, C. N. Davids, S. M. Fischer, A. Heinz, B. Herskind, R. A. Kaye, T. L. Khoo, T. Lauritsen, C. J. Lister, W. C. Ma, R. Nouicer, J. Ressler, W. Reviol, L. L. Riedinger, D. G.Sarantites, D. Seweryniak, S. Siem, A. A. Sonzogni, J. Uusitalo, P. G. Varmette, and I. Wiedenhover
Phys. Rev. C 62, 044305 (2000)

2) SYSTEMATIC STUDY OF ENERGY--SPIN ENTRY DISTRIBUTIONS AT THE PROTON DRIPLINE IN THE A ~ 170 REGION
M.B. Smith, J. A. Cizewski, M. P. Carpenter, F. G. Kondev, R. V. F. Janssens, **K. Abu Saleem**, I. Ahmad, H. Amro, M. Danchev, C. N. Davids, D. J. Hartley, A.

Heinz, T.L. Khoo, T. Lauritsen, C. J. Lister, W. C. Ma, G. L. Poli, J. J. Ressler, W. Reviol, L. L. Riedinger, D. Seweryniak and I. Wiedenhover
Nucl. Phys. A 682, 433c (2001)

3) FIRST OBSERVATION OF EXCITED STRUCTURES IN NEUTRON DEFICIENT, ODD-MASS Pt, Au AND Hg NUCLEI
F. G. Kondev, M. P. Carpenter, R. V. F. Janssens, **K. Abu Saleem**, I. Ahmad, M. Alcorta, H. Amro, J. Caggiano, J. A. Cizewski, M. Danchev, C. N. Davids, D. J. Hartley, A. Heinz, B. Herskind, R. A. Kaye, T. L. Khoo, T. Lauritsen, C. J. Lister, W.C. Ma, G.L. Poli, J. Ressler, W. Reviol, L.L. Riedinger, D. Seweryniak, S. Siem, M. B. Smith, A. A. Sonzogni, P. G. Varmette and I. Wiedenhover
Nucl. Phys. A 682, 487c (2001)

4) IDENTIFICATION OF EXCITED STRUCTURES IN PROTON UNBOUND NUCLEI ^{173,175,177}Au: SHAPE CO--EXISTENCE AND INTRUDER BANDS
F. G. Kondev, M. P. Carpenter, R. V. F. Janssens, **K. Abu Saleem**, I. Ahmad, H. Amro, J. A. Cizewski, M. Danchev, C. N. Davids, D. J. Hartley, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, W. C. Ma, G. L. Poli, J. Ressler, W. Reviol, L. L. Riedinger, D. Seweryniak, M. B. Smith, and I. Wiedenhover
Phys. Lett. B 512, 268 (2001)

5) DIRECT DECAY FROM THE SUPERDEFORMED BAND TO THE YRAST LINE IN $^{152}_{66}Dy^{86}$
T. Lauritsen, M. P. Carpenter, T. Dossing, P. Fallon, B. Herskind, R. V. F. Janssens, D. G. Jenkins, T. L. Khoo, F. G. Kondev, A. Lopez-Martens, A. O. Machiavelli, D. Ward, **K. Abu Saleem**, I. Ahmad, R. Clark, M. Cromaz, J. P. Greene, F. Hannachi, A. M. Heinz, A. Korichi, G. Lane, C. J. Lister, P. Reiter, D. Seweryniak, R. C. Vondrasek, and I. Wiedenhover
Phys. Rev. Lett. 88, 042501 (2002)

6) FIRST OBSERVATION OF EXCITED STRUCTURES IN NEUTRON-DEFICIENT ^{179}Hg: EVIDENCE FOR MULTIPLE SHAPE COEXISTENCE
F. G. Kondev, M. P. Carpenter, R. V. F. Janssens, C. J. Lister, **K. Abu Saleem**, I. Ahmad, H. Amro, J. Caggiano, C. N. Davids, A. Heinz, B. Herskind, T. L. Khoo, T. Lauritsen, W. C. Ma, J. J. Ressler, W. Reviol, L. L. Riedinger, D. G. Sarantites, D. Seweryniak, S. Siem, A. A. Sonzogni, and I. Wiedenhover
Phys. Lett. B 528, 221 (2002)

7) IDENTIFICATION OF EXCITED STATES IN ^{140}Dy
D. M. Cullen, M. P. Carpenter, C. N. Davids, A. M. Fletcher, S. J. Freeman, R. V. F. Janssens, F. G. Kondev, C. J. Lister, L. K. Pattison, D. Seweryniak, J. F. Smith, A. M. Bruce, **K. Abu Saleem**, I. Ahmad, A. Heinz, T. L. Khoo, E. F. Moore, G. Mukherjee, C. Wheldon, A. Woehr
Phys. Lett. B 529, 42 (2002)

8) OCTUPOLE VIBRATION IN SUPERDEFORMED $^{152}_{66}Dy_{86}$

T. Lauritsen, R. V. F. Janssens, M. P. Carpenter, P. Fallon, B. Herskind, D. G. Jenkins, T. L. Khoo, F. G. Kondev, A. Lopez-Martens, A. O. Macchiavelli, D. Ward, **K. Abu Saleem**, I. Ahmad, R. M. Clark, M. Cromaz, T. Dossing, A. M. Heinz, A. Korichi, G. Lane, C. J. Lister, D. Seweryniak
Phys. Rev. Lett. 89, 282501 (2002)

9) LIMITS OF THE ENERGY-SPIN PHASE SPACE BEYOND THE PROTON DRIP LINE: ENTRY DISTRIBUTIONS OF Pt AND Au ISOBARS
M. B. Smith, J. A. Cizewski, M. P. Carpenter, F. G. Kondev, T. L. Khoo,T. Lauritsen, R. V. F. Janssens, **K. Abu Saleem**, I. Ahmad, H. Amro, M. Danchev, C. N. Davids, D. J. Hartley, A. Heinz, C. J. Lister, W. C. Ma, G. L. Poli, J. J. Ressler, W. Reviol, L. L. Riedinger, D. Seweryniak, and I. Wiedenhover
Phys. Lett. B 551, 262 (2003)

10) IN-BEAM gamma-RAY SPECTROSCOPY OF ^{172}Pt
M. Danchev, D. J. Hartley, F. G. Kondev, M. P. Carpenter, R. V. F. Janssens, L. L. Riedinger, **K. Abu Saleem**, I. Ahmad, H. Amro, D. L. Balabanski, J. A. Cizewski, C. N. Davids, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, W. C. Ma, G. L. Poli, J. Ressler, W. Reviol, M. B. Smith, D. Seweryniak, and I. Wiedenhover
Phys. Rev. C 67, 014312 (2003)

11) EXTENDING THE REGION OF TRIAXIAL SUPERDEFORMATION: CANDIDATE TSD BANDS IN ^{174}Hf
M. Djongolov, D. J. Hartley, L. L. Riedinger, F. G. Kondev, R. V. F. Janssens, **K. Abu Saleem**, I. Ahmad, D. L. Balabanski, M. P. Carpenter, P. Chowdhury, D. M. Cullen, M. Danchev, G. D. Dracoulis, H. El-Masri, J. Goon, A. Heinz, R. A. Kaye, T. L. Khoo, T. Lauritsen, C. J. Lister, E. F. Moore, M. A Riley, D. Seweryniak, I. Shestakova, G. Sletten, P. M. Walker, C. Wheldon, I. Wiedenhoever, O. Zeidan, and Jing-ye Zhang
Phys. Lett. B 560, 24 (2003)

12) RECOIL-GATED PLUNGER LIFETIME MEASUREMENTS IN ^{188}Pb
A. Dewald, R. Peusquens, B. Saha, P. von Brentano, A. Fitzler, T. Klug, I. Wiedenhover, M. P. Carpenter, A. Heinz, R. V. F. Janssens, F. G. Kondev, C. J. Lister, D. Seweryniak, **K. Abu Saleem**, R.Krucken, J. R. Cooper, C. J. Barton, K. Zyromski, C. W. Beausang, Z. Wang, P. Petkov, A. M. Oros-Peusquens, U. Garg, and S. Zhu
Phys. Rev. C 68, 034314 (2003)

13) HIGH-SPIN STATES IN ^{179}Au - SPECTROSCOPY OF SHAPE-DRIVING ORBITALS BEYOND THE NEUTRON MIDSHELL
W. F. Mueller, W. Reviol, M. P. Carpenter, R. V. F. Janssens, F. G. Kondev, **K. Abu Saleem**, I. Ahmad, H. Amro, C. R. Bingham, J. Caggiano, C. N. Davids, D. Hartley, A. Heinz, B. Herskind, D. Jenkins, T. L. Khoo, T. Lauritsen, W. C. Ma,

J. Ressler, L. L. Riedinger, D. G. Sarantites, D. Seweryniak, S. Siem, A. A. Sonzogni, J. Uusitalo, P. G. Varmette, I. Wiedenhover, and R. Wadsworth

14) ALIGNMENTS IN THE ODD-PROTON ACTINIDES ^{237}Np AND ^{241}Am
K. Abu Saleem, R. V. F. Janssens, M. P. Carpenter, F. G. Kondev, I. Wiedenhover, I. Ahmad, J. Caggiano, P. Chowdhury, J. A. Cizewski, D. Cline, M. Devlin, N. Fotiades, J. P. Greene, G. Hackman, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, A. O. Macchiavelli, E. H. Seabury, D. Seweryniak, A. Sonzogni, and C. Y. Wu
Phys. Rev. C 70, 024310 (2004)

15) SHAPE COEXISTENCE AND BAND CROSSINGS IN ^{174}Pt
T. M. Goon, D. J. Hartley, L. L. Riedinger, M. P. Carpenter, F. G. Kondev, R. V. F. Janssens, **K. Abu Saleem**, I. Ahmad, H. Amro, J. A. Cizewski, C. N. Davids, M. Danchev, T. L. Khoo, A. Heinz, T. Lauritsen, W. C. Ma, G. L. Poli, J. Ressler, W. Reviol, D. Seweryniak, M. B. Smith, I. Wiedenhover, and Jing-ye Zhang
Phys. Rev. C 70, 014309 (2004)

16) HIGHLY-DEFORMED BANDS IN ^{175}Hf
D. T. Scholes, D. M. Cullen, F. G. Kondev, R. V. F. Janssens, M. P. Carpenter, D. J. Hartley, M. K. Djongolov, G. Sletten, G. Hagemann, C. Wheldon, P. M. Walker, **K. Abu Saleem**, I. Ahmad, D. L. Balabanski, P. Chowdhury, M. Danchev, G. D. Dracoulis, H. M. El-Masri, J. Goon, A. Heinz, R. A. Kaye, T. L. Khoo, T. Lauritsen, C. J. Lister, E. F. Moore, L. L. Riedinger, M. A. Riley, D. Seweryniak, I. Shestakova, I. Wiedenhover, O. Zeidan, and Jing-Ye Zhang
Phys. Rev. C (2004)

17) 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 American Institute of Physics

18) DIFFRACTION EFFICIENCY AND DIFFRACTION BANDWIDTH OF THERMAL GRADIENT AND COMPMOSITION GRADIENT CRYSTALS
R. Smither, **K. Abu Saleem**, M. Beno, C. Kurtz, A. Khounsary and N. Abrosimov
Review of Scientific Journal, 2005

19) HIGH DIFFRACTION EFICINCY, BROADBAND, DIFFRACTION CRYSTALS FOR USE IN CRYSTAL DIFFRACTION LENSES
Robert K. Smither, **Khaliefeh Abu Saleem**, Dante E. Roa, Mark Beno, Peter von Ballmoos and Gerry Skinner
Experimental Astronomy (2006), 201-210

CONTRIBUTED PAPERS AT MEETINGS AND OTHER PUBLICATIONS

1) INTERPLAY BETWEEN OCTUPOLE AND QUASIPARTICLE EXCITATIONS IN NEUTRON DEFICIENT Pt AND Hg NUCLEI
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