

Curriculum Vitae

Personal Information:

Name: Safar Sa'ad Al-Ghamdi.

Date and place of birth: 1957, Saudi Arabia

Marital status: Married with 5 children

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Mobile: +966505233071

Qualifications:

Qualification	Institution	G. year
Ph.D	Manchester University, U.K. **	December 1993
M.Sc	RHBNC, London University, U.K.*	October 1987
B.Sc	Salford University, U.K.	July 1983

** "Nuclear Orientation of $^{(147,148)}\text{Tb}$, ^{148}Ho and General Spectroscopy in Mass Regions $A = 70, 120$ and 150 ".

*"Positron beam production and its time of flight measurement".

Professional Experience:

Since 2011 Head of the Physics and Astronomy Department, KSU.

March 2015, **Associate professor**, Physics and Astronomy Department, College of Science, K.S.U.

September 1998, Assistant professor, Physics and Astronomy Department, College of Science, K.S.U.

May 1994, Assistant professor, department of applied science, King Faisal Air Academy.

December 1987, Lecturer, King Faisal Air Academy, Riyadh, Saudi Arabia.

February 1984, Demonstrator, King Faisal Air Academy, Riyadh, Saudi Arabia.

Research Interests:

Nuclear Structure, Radiation Measurements, Nuclear Instrumentation.

Actual Projects:

- Nuclear Structure Experiments and Instrumentation Development within PRESPEC (Principle Investigator, NPST project, 2 MSR, 2013-2016).
- Development of a novel gamma camera for applied and fundamental research (Co-Investigator, NPST project, 2 MSR, 2013-2016).
- Detection Setup for the Study of Fusion and Deep-Inelastic Nuclear Reactions using radioactive beams (Co-Investigator, NPST project, 2 MSR, 2013-2016).

Teaching Experience:

Undergraduate level

- 1- General physics
- 2- Electromagnetism (I)
- 3- Modern physics (I)
- 4- Nuclear physics
- 5- Neutron and Reactor physics

Postgraduate Level:

- 1- Nuclear structure
- 2- Nuclear techniques
- 3- Nuclear reactor physics

Supervision:

Supervised more than twenty B.Sc. students' graduation projects.

Supervised many projects for officers from the Royal Saudi Air Force, at the College of Field Training, Ministry of Defense, Saudi Arabia. (1996-1998)

Postgraduate supervision (M.Sc. projects):

- 1- G. A. Khougeer "Measurement of Radon concentration in student's residential buildings At King Saud University in Riyadh" Department of Physics and Astronomy, College of Science, KSU, (**1423, 2002**).

- 2- A. A. Al-Enazi "Collective States in Some Deformed Nuclei" Department of Physics and Astronomy, College of Science, KSU, **(1425, 2004)**.
- 3- S. A. Al-Habeeb "Assessment of patient's doses from Routine Diagnostic X-ray Tests in the Security Forces Hospital, in Riyadh (Saudi Arabia). Department of Physics and Astronomy, College of Science, KSU, **(1426, 2005)**.
- 4- M. H. Al-Malki "The nuclear structure for deformed nuclei in the mass region $A = 150$ ", Department of Physics and Astronomy, College of Science, KSU, **(1426, 2005)**
- 5- S. H. Al-Yami "Radon levels in Najran in the Southern Region of Saudi Arabia". Department of Physics and Astronomy, College of Science, KSU, **(1429, 2008)**
- 6- M. H. Al-Sameen "Soil Radon Concentration in Qateef 's Date Farms in the Eastern Province of Saudi Arabia". Department of Physics and Astronomy, College of Science, KSU, **(1429, 2008)**
- 7- Basmah M. Al-Sobee, "Indoor Radon Concentration in Kindergartens and Elementary Schools in Jizan Region, Kingdom of Saudi Arabia". Department of Physics and Astronomy, College of Science, KSU. **(1432, 2011)**.
- 8- Azeez A. A. "Installation of positron lifetime measurement system" **(1432, 2012)**.
- 9- M. A. Al-Aqeel, "Isomeric States of Heavy Neutron-Rich Nuclei around $N=116$ ". Department of Physics and Astronomy, College of Science, KSU, **(1431, 2012)**.
- 10- Ashwaq A. O. Al-Dehaireb, "Radon exhalation rate from soil and rocks quarried from mountains around Hail city, Saudi Arabia", Department of Physics and Astronomy, College of Science, KSU, **(1429H, 2013)**
- 11- T. k. k. Al-Tarify, "Radon levels in kindergarten and elementary schools in Hail, Hail region, Saudi Arabia", Department of Physics and Astronomy, College of Science, KSU, **(1429,/2013)**

- 12-** Alhanoof Aldosari “R3B Time Projection Chamber” (**1435, 2014**).
- 13-** Mohammad Alsharary, “Correlation of Positron \annihilation Lifetime with Free Radicals Content and Metal Concentration in Melanin”, Department of Physics and Astronomy, College of Science, KSU. (**1436,2015**)
- 14-** Nassar Nasser AlAssemi “Development of a Position Sensitive Gamma Detector”, Department of Physics and Astronomy, College of Science, KSU. (**1437, 2016**)
- 15-** Homood Abdalghani Gasim “Enhancement of Ion Beams Extraction Efficiency in the CS-30 Cyclotron at KFSHRC to increase radioisotopes production ” Department of Physics and Astronomy, College of Science and King Faisal Specialist Hospital and Research Centre (KFSHRC) (**in progress**)

Conferences, workshops and training courses:

- 1-** Postgraduate summer school (Intensive study in different areas of nuclear physics) held at Surrey University, U.K, 1992.
- 2-** North-West Europe conference on nuclear physics held at the University of Edingborough, U.K, between the 31st of March and the 3rd of April 1992.
- 3-** Intensive course on TOSCA and ELEKTRA (vector fields) software used to design an electron spectrometer built to observe weak Internal Conversion electron lines with greater efficiency, 1992.
- 4-** Int. conference on nuclear and particle physics held at the University of Glasgow, U.K, (30 March-1 April 1993).
- 5-** The first meeting of the Saudi Physical Society held at King Khalid University, Abha, Saudi Arabia 1424H/ 2003
- 6-** The International Establishment Workshop for Excellence Center of Science & Mathematics Education held at King Saud University, 29-30/12/1428H, 8-9/1/2008G

- 7-** The fourth meeting of the Saudi Physical Society, organized by the National Center for Mathematics and Physics at King Abdulaziz City for Science and Technology on 29-30/12/1428H, 8-9/1/2008G.
- 8-** The KSA-FAIR future collaboration workshop, organized by the National Center for Mathematics and Physics at King Abdulaziz City for Science and Technology on 7-9 Jumad 1430H, 2-4 May 2009.
- 9-** A course on Effective Teaching Skills held by the Deanship of Skills Development, King Saud University on 27-29/11/1430H (2009G)
- 10-** A course on Skills of Evaluating Students Performance, Deanship of Skills Development, King Saud University, 14 and 21/1/1431H, (31/12/2009-7/1/2010G).
- 11-** International Conference on Radiation Medicine (clinical applications and innovative approaches, organized by The King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia, 1-4 March 2010
- 12-** Nuclear Dangers, Nuclear Realities workshop, organized by Institute of Diplomatic Studies and King Faisal Centre for Research & Islamic Studies (KFCRIS), Riyadh, Saudi Arabia in Collaboration with Stimson Centre, USA, The workshop was held at the KFCRIS, Riyadh, Saudi Arabia, 11-12 April, 2010
- 13-** Course Design and Construction training, Deanship of Skills Development, King Saud University, 1 and 2/6/1431H, (15-16/5/2010G).
- 14-** ASY-EOS 2010, International Workshop on Nuclear Symmetry Energy at Medium Energy organized by the Italian National Institute for Nuclear Physics (INFN), held in Noto, Sicily, Italy, 21-24 May 2010.
- 15-** A course on Teaching Portfolio, Deanship of Skills Development, King Saud University, 12/6/1431H, (26/5/2009-16/5/2010G).
- 16-** The fifth meeting of the Saudi Physical Society on Horizons of Energy Physics, held at King Khalid University, Abha, Saudi Arabia, on (17-19)/11/1431H, (25-27) Oct. 2010G.
- 17-**The 1st Annual Forum for University Teaching, organized by the Deanship of Skills Development Faculty Members Unit, King Saud University, Kingdom of Saudi Arabia. 13-14/10/1432H, 11-12/9/2011G.
- 18-** Research Excellence Day held by the College of Science, King Saud University (April-2012)

- 19- One day workshop organized by the Vice-Rectorate for Postgraduate Studies and Scientific Research, Deanship of Graduate Studies, K.S.U. entitled; Excellence in Postgraduate Programs, A Move towards World-Class Postgraduate Studies. (2013)
- 20- One day workshop organized by Deanship of Faculty and Personnel Affairs entitled; Recruiting Outstanding Saudi Students Abroad, Candidates from the Custodian of the two Holy Mosques scholarship program (2013)
- 21- “The first week” organized by the Deanship of Skills Development entitled: University teaching *towards Excellence*. (September 2013).
- 22- The 3rd Conference on Mathematics and its Applications in Higher Education, *pioneering experiences and future visions*. Organized by the Saudi Mathematical Sciences Society (2013).
- 23- Saudi Sustainable Energy Symposium: Value Localization Series, organized by King Abdullah City for Atomic and Renewable Energy (K.A.C.A.R.E), Riyadh, K.S.A. (23-24 April, 2013).
- 24- One day workshop on Lessons Learned from Fukushima Daiichi Nuclear Power Plant Accident and Nuclear Security, Held at Sustainable Energy Technologies (SET) Center, King Saud University in collaboration with JAIF International Cooperation Center (JICC) and Japan Atomic Energy Agency (JAEA), Integrated Support Center for Nuclear Non-Proliferation and Nuclear Security (ISCN), Japan, (February, 10, 2014).
- 25- One day workshop organized by Deanship of Graduate Studies entitled; Improved Comprehensive Examination Regulations for Postgraduate Studies. (2014)
- 26- National Symposium for Command & Control and Cybersecurity, King Saud University, 27-29 April, 2015

Memberships

- 1- Saudi Physical Society (SPS)
- 2- American Physical Society (APS)
- 3- NUSTAR@FAIR Collaboration.
- 4- PRESPEC Collaboration.
- 5- R3B Collaboration.

Reviewing:

- 1- J. King Saud University, Science
- 2- "Heat Transfer" by R. S. Winterton. Translated by Dr. H. Al-Swaydan , Physics and Astronomy Department, College of Science, K.S.U.
- 3- King Abdulaziz University, Deanship for scientific research
- 4- Taibah University, Deanship for Scientific Research
- 5- Internal and external examiner: many M.Sc theses at Riyadh University for Girls (Princess Norah University) and King Saud University
- 6- The fifth meeting of the Saudi Physical Society on Horizons of Energy Physics, King Khalid University, Abha, Saudi Arabia, on (17-19)/11/1431H, (25-27) Oct. 2010G.

Teaching Training Courses:

- 1- Effective Teaching Skills, Deanship of Skills Development, King Saud University, 27-29/11/1430H, 15-17/11/2009G.
- 2- Skills of Evaluating Students Performance, Deanship of Skills Development, King Saud University, 14 and 21/1/1431H, (31/12/2009-7/1/2010G.
- 3- Attended a course on Course Design and Construction, Deanship of Skills Development, King Saud University, 1 and 2/6/1431H, (15-16/5/2010G.
- 4- Attended a course on Teaching Portfolio, Deanship of Skills Development, King Saud University, 12/6/1431H, (26/5/2009-16/5/2010G.
- 5- Attended a course on Assessing Students Learning, Deanship of Skills Development, King Saud University, 10/10/1431H, (19/9/2010G.
- 6- Attended a course on Teaching with Active Learning, Deanship of Skills Development, King Saud University, 11/10/1431H, (20/9/2010G.
- 7- Attended a course on Improving Student learning and Motivation, Deanship of Skills Development, King Saud University, 12/10/1431H, (21/9/2010G).

- 8- Attended a course on Learning Management System (LMS), Deanship of E-Learning and Distance Learning, King Saud University, 25-26/2/1432H, (29-30/1/2011G)
- 9- Attended a course on the use of Smart Board, Deanship of E-Learning and Distance Learning, King Saud University, 27/2/1432H, (31/1/2011G)

University and community services

- 1- Head of Physics and Astronomy Department (Since 2011)
- 2- Head of the radiation protection committee (King Saud University committee) (Since 2011)
- 3- Member of the accreditation committee of the department of Physics and Astronomy (K.S.U.) (since 2009)
- 4- Member of the Postgraduate Committee, Physics and Astronomy Department, College of Science, King Saud University. (Since 2011)
- 5- Member of King Abdullah Institute for Consulting and Research (Since 2008)
- 6- Help school teachers (King Saud University graduates and others) who work in education and other professions. (Since 2007)
- 7- Head of the Nuclear Group, Physics Department, King Saud University (10 years)
- 8- Head of the staff promotion committee, Physics and Astronomy Department, College of Science, King Saud University. (4 years)
- 9- Member of the Academic staff recruitment committee, Physics and Astronomy Department, College of Science, King Saud University (four years).
- 10- Member of the Research Center Council, College of Science, King Saud University (four years).
- 11- College of Science Sports Activity Officer for two consecutive terms (four years).
- 12- Published three articles in Assaqoor magazine, published by King Faisal Air Academy, Ministry of Defense, Saudi Arabia

Prizes:

King Aubdulaziz and his Companions Foundation for Giftedness and Creativity prize for the paper entitled "Preliminary Estimation of Fresh Water and Electrical Power Production Using Solar Power Tower Plant in Asir Region" submitted to the regional conference for talent under the auspices of the custodian of the two holy mosques king Abdullah bin Abdulaziz Al-Saud, 3/8/1427H, 27/8/2006, held by Fageeh Center for Research and Development, Jeddah, Saudi Arabia.

Publications:

1- B. D. D. Singleton, P. M. Walker, A. Bhagwat, S. S. Al-Ghamdi, C. G. Barham, I. S. Grant, A. G. Griffiths, J. Rikowska, and N. J. Stone "On line nuclear orientation of the deformed neutron deficient Eu, Sm and Pm isotopes". Hyperfine Interactions 75(1992) 471-479, Netherlands.

2- C. G. Barham, S. S. Al-Ghamdi, A. Bhagwat, M. Booth, I. S. Grant, M. Lindroos, J. Rikowska, B. D. D. Singleton, N. J. Stone, P. M. Walker "On line orientation of Bromine isotopes". Hyperfine Interactions 75(1992)433-438, Netherlands.

3- C. G. Barham, S. S. Al-Ghamdi, I. S. Grant, M. Booth, J. Rikowska, N. J. Stone, A. Bhagwat, B. D. D. Singleton, P. M. Walker, K. C. Yeung "On line orientation of light antimony isotopes". Presented at the 6th Int Conf on nuclei far from stability and the 9th Int Conf on atomic masses and fundamental constants, 1992, Bernkastel Kues, Germany.

4- A. Bhagwat, S. S. Al-Ghamdi, P. M. Walker, B. D. D. Singleton, C. G. Barham and I. S. Grant, "Lifetime measurements of intruder states in ^{120}Xe and shape co-existence picture" J. Phy. G: Nucl Part Phys 18(1992) 977 982. (Brief reports), U.K

5- O. A. Aldayel, H. H. Alharbi, S. S. Al-Ghamdi Comparison of gamma-ray Spectrometry and delayed Neutron Counting for determination of Uranium. Analytical Sciences, VOL. 18(4) 489-490 (APRIL 2002). (The International Journal of the Japan Society for Analytical Chemistry), Japan.

- 6- O. A. Aldayel, H. H. Alharbi, S. S. Al-Ghamdi, Determination of Uranium by Gamma Ray Spectrometry (GRS) and Delayed Neutron Counting (DNC), Fifth International Conference of Methods and Applications of Radioanalytical Chemistry (MARC V), April 9-14 2000, U.S.A
- 7- M. S. Al-Ayed, M. S. Garawi, S. S. Al-Ghamdi, A. M. Al-Soraya and S. U. El-Kameesy "Environmental Radiation Doses at King Saud University Campus" J. King Saud Univ., Vol. 17, Science (2), pp. 71-79, (1425H./2004), Riyadh, Kingdom of Saudi Arabia.
- 8- A. M. Outif, A. A. Hindi, A. A. Al-Dihan, S. S. Al-Ghamdi, "Bone Mineral Density, What Normative Data should we Use to Report Saudi Female patients?" Saudi Medical Journal 2004; Vol. 25 (8): 1040-1045, Kingdom of Saudi Arabia.
- 9- S. S. Al-Ghamdi, G. A. Khougeer**, M. R. Baig, "Integrated Radon Measurements in King Saud University girl's Campus, Riyadh, Saudi Arabia. "Arab Gulf Journal of Scientific Research, 24 (1), Pp 18-22 (2006). Correction in: Arab Gulf Journal of Scientific Research, 24 (2): C-AGJSR-0001 (2006).
- 10- S. S. Al-Ghamdi, G. A. Khougeer**, M. R. Baig "Indoor radon levels and distribution in occupied and unoccupied residential buildings in student's campus at King Saud University, Riyadh, Saudi Arabia" J.King Saud Uni., Vol 19, Science (2), pp 73-81, Riyadh (1427H/2007)
- 11- S. H. Alyami**, S. S. Al-Ghamdi, M. R. Baig, M. S. Al-Garawi , Indoor Radon Concentration Levels in Najran Region, Saudi Arabia, AIP Conf. Proc. July, 2010, Volume 1250, pp 412-415. Progress of Physics Research in Malaysia: PERFIK2009.
- 12- S. S. Al-Ghamdi, M.S. Al-Garawi , Tahani. M. Al-Mosa** and M.R.Baig, “ Investigating Indoor Radon Levels and Influencing Factors in Primary Schools of Zulfi City, Saudi Arabia”, Published American Institute of Physics (AIP) Conference Proc. Volume 1370 Pp 293-298 (2011)
- 13- S. S. Al-Ghamdi, M. S. Al-Garawi, M. R. Baig and M. Al-Sameen**, " Estimation of Soil Radon Concentration in Al-Qateef's Date Palm Farms, Saudi Arabia" Published American Institute of Physics (AIP) Conference Proc. Volume 1370 Pp 287-293 (2011)
- 14- M.S.Al-Salhi W.A.Farooq, M.R.Baig, A. H. Al-Fareikh** and S.S Al-Ghamdi. “Carbon dioxide Laser Induced Micro-structural Variation in alpha-irradiated Polyallyldiglycol polymer”, Saudi International Electronics, Communications and Photonics Conference, (SIECPC) art.no.5876927 IEEE Explorer (2011)

- 15- M.R.Baig M.S.Al-Salhi , A. H. AL-Fraikh** and S. S. Al-Ghamdi, "Observation of Wavelength Dependent features of Latent Tracks in CR-39 PolyAllyldiglycol Polymer Irradiated with ND:YAG(UV) Laser", Published American Institute of Physics, Conference Proc. Volume ,1370,299-304 (2011)
- 16- W. A. Farooq, M. R. Baig, A. Fatehmulla, M.S. Al-Salhi, S. S. Al-Ghamdi, F.Yakuphanughu, "Controlling of optical band gap of Polyallyldiglycol carbonate polymer with ultraviolet laser radiation", Acta Physica Polynica (A) Volume (123) 106-110 (2013)
- 17- M. R. Baig, I. F. A. AL-Inazi**, W. A. Farooq, S. S. Al-Ghamdi, M.S.Al-Salhi, " Spectroscopic Study of Solar Exposed Pre and Post Alpha Irradiated CR-39 Plastic Track Detector in UV-Vis Range", Published in Electronics ,communications and photonics International Conference (SIECPC) Organised by IEEE 27-30 April (2013) , Saudi Arabia.
- 18- Reifarh R. et al., Nuclear Astrophysics with Radioactive Ions at FAIR, ar Xiv: 1310.1632v1 [astro-ph.IM] 6Oct2013
- 19- M. R. Baig, W.A. Farooq, Syed Mansoor Ali, Talal Mohammed Alrashidi**, M.Atif, S. S.Al-Ghamdi, and M.S.Al-Garawi, "Investigating the Effects of Gamma exposure on the Optical, Microstructural and track properties of Pre and Post Alpha irradiated PM-355 SSNTD", Journal of Optoelectronics and advanced materials Vol.16 ISS. (5-6) (2014)
- 20- Al-Ghamdi S. S., "Seasonal and location dependence of indoor and soil radon concentrations in two villages, Najran region, Saudi Arabia" Radiation Measurements, (Accepted, August 2014)
- 21- Syed Mansoor Ali, W. A. Farooq, Rabia Qindeel , M. R. Baig, M. A. Shar, S. S. Al-Ghamdi, M. S. Al-Garawi. "Influence of gamma irradiation on the structural and optical properties of nanostructured Magnesium doped SnO thin films" Journal of Nano electronics and Optoelectronics, Vol.9 pp.548-551(2014)
- 22- M. R. Baig, W. A. Farooq, S. S AL-Shehri, M.S. Al-Salhi, S.S. Al-Ghamdi, M. S. Al-Garawi, M. Atif. "Study of radiation induced variation in structural and Optical properties of Polyallyl diglycol carbonate Polymer" IEEE explorer-2015
- 23- R. Qindeel, N. Alonizan, M. R. Baig, W. A. Farooq, S. S. Al-Ghamdi and M. S. Al-Garawi. "Study of Optical properties of Alpha and Nd:YAG Laser Irradiated Cellulose Nitrate Polymer" Organo Opto-Electronics *An International Journal* Org. Opto-Elect. 1, No. 1, 17-24 (2015)
- 24- Syed Mansoor Ali, W.A. Farooq1, M. R. Baig, M. A. Shar, M.Atif, S.S. Al-Ghamdi, M. S. Al-Garawi, Naeem-ur- Rehman, Muhammad Hammad Aziz,

“Structural and optical properties of pure and Ag doped ZnO thin films by sol gel spin coating technique” Journal of Material science Poland, 33(3), pp 601-605, 2015

25- M. R. Baig, M. S. Al-Garawi, S. Mansoor Ali, S. S. Al-Ghamdi, A. Kayani “Optical modifications induced by proton Irradiation in PM-355 solid state nuclear track detector” Journal of optoelectronics and advanced Materials Vol.17, No.11-12 November- December (2015) Pp-1675-1679

26- W. A. Farooq, M. R. Baig, Syed Mansoor Ali, M. A. Shar, S.S. Al-Ghamdi, M. S. Al Garawi, M. Atif. “Synthesis of nano particles on Polyallyl diglycol Carbonate Polymer surface with alpha radiation” Journal of Nano electronics and Optoelectronics Vol.11 (1), 24-28 (2016)

27- SYED MANSOOR ALI, S.A. AL SALMAN, S.S. AL-GHAMDI, M. S. AL GARAWI, M. R. BAIG, TURKI S. ALKHURAIJI. “Effects of different substrate on the structural and optical properties of atomic layer deposited TiO₂ thin films” Journal of optoelectronics and advanced Materials Vol. 18, No. 7-8, July - August 2016, p. 666 - 671

28- M.S. Al Garawi, S.A. Al Salman, Mansoor Ali Syed, A. Kayani, S.S. Al-Ghamdi, M.R. Baig. “X-ray diffraction (XRD), Thermogravimetric analysis (TGA) and impedance Spectroscopy studies of PM-355 as a function of proton fluence” Radiation Measurements Volume 99, April 2017, Pages 41–43

29- S.S. Alghamdi, W.A. Farooq, M.R. Baiga, M.S. Algarawi, Talal Mohammed Alrashidi, Syed Mansoor Ali, K. Alfaramawi. “Pulsed UV Laser Induced modifications In Optical and structural Characteristics of Alpha Irradiated PM-355 SSNTD” Applied Radiation and Isotopes 128 (2017) 287–291

30- S. MANSOOR ALI, A. KAYANI , M. S. AL GARAWI , S. S. AL-GHAMDI , S. A. AL-SALMAN, M. R. BAIGa , T. S. ALKHURAIJI. “Observation of Nano Sized Particles in Proton Irradiated PM-355 Polymer with X-Ray Diffraction (XRD) and Morpholgical Studies” Digest Journal of Nanomaterials and Biostructures, Vol. 12, No. 3, July - September 2017, p. 727 - 732

Books and reports

- 1- Contributed in writing the physics and Mathematics books for King Faisal Air Academy, Ministry of Defense, Saudi Arabia (1994-1997)**
- 2- Prepared and submitted a proposal to repair the Van de Graaff accelerator to resume nuclear structure research in the department in addition to adding a PIXE line to the current accelerator (2002).**
- 3- Co-Authored a report on the radiation dose in Faqaa samples taken from Hafr Albatin's area, sponsored by: Deanship of Scientific Research, King Saud University.**
- 4- Co-Authored a report on the radon levels in some residential buildings in King Saud Campuses (Direyah and Olaysha), submitted to the Physics and Astronomy Department, King Saud University.**
- 5- Co-Authored a report on the current state of the nuclear group at the Physics and Astronomy Department, College of Science, King Saud University (May-2010)**