

Prof. Dr. M.N.H. Comsan
Professor of Nuclear Physics
E-mail: mnhcomsan@menanet.net

Scientific History of Prof. Dr. M.N.H. Comsan
(Curriculum Vitae)

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|----------------------------------|---|-----------|
| Name | Mohammad Nassef Hussein Comsan | |
| Date & Place of Birth | 20 Feb. 1939, Samalut, El-Minya, Egypt | |
| Sex | Male | |
| Nationality | Egyptian | |
| Marital Status | Married | |
| Education | *University Diploma (M.Sc.) in Physics, 1963, Faculty of Physics, Moscow State University, Moscow, U.S.S.R. *Candidate (Ph.D.) in Nuclear Physics, Jan. , 1968, Physics-Technical Faculty, Kharkov State University, Kharkov, U.S.S.R. | |
| Employment History | Demonstrator | 1963-1968 |
| | Assistant Professor | 1968-1973 |
| | Associate Professor | 1973-1978 |
| | Professor | 1978- |
| | All at the Atomic Energy Authority, Cairo, Egypt | |
| Present Status | Emeritus Professor of Nuclear Physics, Atomic Energy Authority, Egypt. | |
| Experience in Research | Since 1963 and up till now I am engaged in research in the field of low energy nuclear reactions, nuclear spectroscopy, nuclear electronics, nuclear computation and data analysis, cyclotrons and applications. | |

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Experience in Teaching at the University Level

Design and delivery of courses in different branches of Physics at intermediate and advanced levels as well as post-graduate courses were given since 1968 at: Cairo, Ain Shams, Al-Azhar, Tanta, Suez Canal, Menoufeya, El-Minya, Zagazig and Fayoum Universities as well as Military Technical Academy and Higher Technological Institute 10th of Ramadan City, Egypt, and Sana'a University, Yemen.

Teaching Experience in Arabic

From 1970 up till now- teaching of physics courses at university undergraduate and post graduate levels in science and pedagogical faculties, as well as training courses in radiation physics and protection at the Middle East Regional Centre for Radioisotopes for Arab Countries, Centre of Nuclear Safety and Radiation Control, Nuclear Research Centre, and the Arab Atomic Energy Agency.

Scientific Supervision

18 M.Sc. theses in Physics.
8 Ph.D. theses in Physics.

Research Fellowships

- i) Scientific visit to the Central Institute of Physics (KFKI), Budapest, Hungary during the period May 1969- March 1970.
- ii) Scientific visit to the Joint Institute for Nuclear Research (JINR), Dubna, USSR during the period October 1973-October 1974.

Professional Qualifications

Qualified expert in radiation protection, Ministry of Public Health, Egypt No. 45 (1991)

Membership of Scientific Committees

- i) Member (1979-) and Chairman (1987-2002) of the Permanent Committee for Judging Scientific Activity in Physics at the Atomic Energy Authority, Egypt.
- ii) Member of the Scientific Publication Committee of the Nuclear Research Centre, AEA, Egypt (1984-1997).

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**Membership of
Scientific Societies**

- i) Member of the Board of the Egyptian Society of Nuclear Sciences and Applications (1977-1988).
- ii) Member of the Editorial Board of the Arab Journal of Nuclear Sciences and Applications.
- iii) Member of the Physics and Mathematics Society of Egypt (1968).
- iv) Member of the Egyptian Physics Society (1970).
- v) Founder and President of the Egyptian Nuclear Physics Association (1997).
- vi) Assoc. Member of IoP, UK, 1999.
- vii) Member of IRPS, Australia, 2001.
- viii) Member of WIF, UK, 2002.

**Organization of
Scientific
Conferences and
Workshops**

*3rd and 4th Conferences on Nuclear Sciences and Applications, Cairo 1984 and 1988.

*Egyptian – Russian School and Workshop on Cyclotrons and Applications, Cairo 1996.

*2nd School and Workshop on Cyclotrons and Applications, Cairo March 1997.

*Conference on Nuclear and Particle Physics, Cairo Nov. 1997, 2nd – Nov. 1999, 3rd - Oct. 2001, 4th –El-Fayoum Oct.2003, 5th – Cairo Nov. 2005, 6th – Luxor Nov. 2007, 7th –Sharm El-Sheikh Nov. 2009.

*Conference and Workshop on Cyclotrons and Applications, Cairo 3rd - Feb. 1999, 4th -Feb. 2001, 5th -Feb. 2003.

*Environmental Physics Conference, El-Minya Feb. 2004, 2nd Alexandria Feb. 2006, 3rd – Aswan Feb. 2008.

Scientific Journals

Founder and Editor-in-Chief, Journal of Nuclear and Radiation Physics (Established 2006).

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Research Grants National counterpart for the following technical assistance and research projects of the International Atomic Energy Agency (IAEA):

- Utilization of a Van de Graaff Accelerator (1978-81).
- Establishment of a Variable Energy Cyclotron Laboratory (1987-2001) EGY/0/010.
- Utilization of a Cyclotron Laboratory (1994-2003) EGY/0/013.
- Upgrading of Radiation Detectors (1998-2002) EGY/4/044.
- Use of Inshas Cyclotron Facility (2003-05) EGY/2/009.

Teaching and Research Experience and Interest

Teaching Experience at the University Level

Lectures, seminars and tutorials at Egyptian and Arab Universities

Junior undergraduate courses in general physics: Mechanics, Properties of Matter, Vibrations and Waves, Heat and Thermodynamics, Electricity and Magnetism, and Optics for the 1st and 2nd years.

Current interest: Electricity and Magnetism, Mechanics, Vibrations and Waves.

Medium and senior level undergraduate courses in: Electromagnetism, Electrodynamics, Classical Mechanics, Analytical Mechanics, Relativity, Quantum Mechanics, Statistical Mechanics, Fluid Mechanics, Electronics, Accelerators, Atomic Physics, Molecular Physics, Nuclear Physics, High Energy Physics, Elementary Particle Physics, Neutron and Reactor Physics, Radiation Physics, Nuclear Radiation Techniques and Measurements, Methods of Mathematical Physics, Computational Physics.

Current Interest: Quantum Mechanics, Nuclear Physics, Computational Physics.

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Postgraduate courses in: Classical
Electrodynamics, Magnetohydrodynamics, Statistical
Mechanics, Quantum Mechanics, Nuclear Physics.

Current Interest: Nuclear Physics, Quantum
Mechanics.

Research Interest

Low energy nuclear physics, radiation physics,
computational physics. 107 scientific publications covering
the period 1964-2009.

List of Scientific Publications

1. Studies of Proton Groups from the Reaction $^{19}\text{F}(d,p)^{20}\text{F}$.
By: A.Z. El-Behay, M.A. Farouk, V.J. Gontchar, V.A. Loutsik, M.H. Nassef and I.I. Zaloubovsky.
Nuclear Physics 56 (1964) 224.
2. The (d,α) Reaction on ^{19}F .
By: A.Z. El-Behay, M.A. Farouk, M.H. Nassef and I.I. Zaloubovsky.
Nuclear Physics 61 (1965) 282.
3. Measurement of the Thickness of Thin Foils.
By: M.A. Farouk, M.H. Nassef, A.Z. El-Behay and I.I. Zaloubovsky.
Nuclear Instruments and Methods 36 (1965) 210.
4. Studies of (d,α) and (d,d) Reactions on ^{32}S
By: A.Z. El-Behay, M.A. Farouk, M.H. Nassef and I.I. Zaloubovsky.
Il Nuovo Cimento, Serie X 38 (1965) 52.
5. Investigation of $^{23}\text{Na}(d,\alpha)^{21}\text{Ne}$ Reaction.
By: A.Z. El-Behay, M.N.H. Comsan, M.A. Farouk, M.L. Jhingan and I.I. Zaloubovsky.
Il Nuovo Cimento, Serie X 38 (1965) 1082.
6. The (d,p) Reaction on Na^{23} at Deuteron Energies from 1.0 to 2.5 MeV.
By: A.Z. El-Behay, M.A. Farouk, M.L. Jhingan, M.H. Nassef and I.I. Zaloubovsky
Nuclear Physics 74 (1965) 225.
7. Study of the Angular Correlation of the $^{24}\text{Mg}(d,p\gamma)^{25}\text{Mg}$ Stripping Reaction.
By: M.A. Farouk, M.N.H. Comsan, A.Z. El-Behay and I.I. Zaloubovsky.
Atomkernenergie 12 (1967) 133.
8. Angular Correlation Measurements in the $^9\text{Be}(d,p\gamma)^{10}\text{Be}$ Reaction.
By: M.A. Farouk, M.N.H. Comsan, A.Z. El-Behay, A. El-Kamhawy, A.N. Lovov and A.I. Popov
Zeitschrift fur Physik 201 (1967) 52.
9. Angular Correlation Measurements in the $^{10}\text{B}(d,p\gamma)^{11}\text{B}$ Reaction
By: M.N.H. Comsan, M.A. Farouk, A.A. El-Kamhawy and M.S.M. El-Tahawy, and A.N. Lovov.
Zeitschrift fur Physik 212 (1968) 71.

10. Studies of the (d, α) Reaction on the ^{10}B and ^{11}B Nuclei in the Deuteron Energy Range (0.8 to 2.5 MeV)
By: M.N.H. Comsan, M.A. Farouk, A.A. El-Kamhawy, M.S.M. El-Tahawy and A.N. Lovov.
Atomkernenergie 13 (1968) 415.
11. Angular Correlation Measurement in the $^{11}\text{B}(\text{d},\text{p}\gamma)^{12}\text{B}$ Reaction.
By: M.N.H. Comsan, M.A. Farouk, A.A. El-Kamhawy, M.S.M. El-Tahawy and A.N. Lovov
Zeitschrift fur Physik 212 (1968), 122.
12. The $^{20}\text{Ne}(\text{d},\text{p})^{21}\text{Ne}$ Reaction at Low Deuteron Energies.
By: M.N.H. Comsan, A.Z. El-Behay and M.A. Farouk.
Atomkernenergie 18 (1971) 317.
13. Nuclear Statistical Fluctuation Program (NCFL),
By: M.N.H. Comsan.
A.R.E. A.E.E./Rep. 148 (1972).
14. Spectroscopic Factors for the ^{11}B 6.76 MeV Level Using Realistic Optical Potentials.
By: M.N.H. Comsan
Atomkernenergie 21 (1973) 41.
15. Nuclear Reaction Kinematics Program (NCKN).
By: M.N.H. Comsan.
A.R.E. A.E.E./Rep. 178 (1973).
16. Study of the $^{35}\text{Cl}(\text{d},\text{p})^{36}\text{Cl}$ Reaction at Low Deuteron Energies.
By: A.Z. El-Behay, M.N.H. Comsan and M.A. Farouk.
Atomkernenergie 21 (1973) 44.
17. Legendre Expansion and Coordinate Transformation.
By: M.N.H. Comsan
A.R.E. A.E.E./Rep. 179 (1973).
18. Fluctuation Study of the $^{34}\text{S}(\text{d},\text{p})^{35}\text{S}$ Reaction.
By: M.N.H. Comsan, M.A. Farouk and A.Z. El-Behay.
Atomkernenergie 21 (1973) 203.
19. A Four-Channel Mixer for the "RLDL34-9" Multichannel Analyzer.
By: M.N.H. Comsan and V.A. Lutsik
A.R.E. A.E.E./Int. Rep 64 (1973).

20. Distant-Level Background Contribution to Charged-Particle Elastic Scattering by Even-Even Nuclei
By: M.N.H. Comsan
Atomkernenergie 22 (1973) 95.
21. A. Fast-Slow Coincidence Circuit with Time Resolution in the Nano-Second Range.
By: M.N.H. Comsan
A.R.E. A.E.E./Int. Rep. 77 (1973).
22. Spectroscopic Factor for the ^{20}F 0.655 MeV State From the $^{19}\text{F}(d,p)^{20}\text{F}$ Reaction
By: M.N.H. Comsan, A.A. El-Kamhawy, F. Asfour and M. Abd El-Fattah.
Atomkernenergie 26 (1975) 37.
23. Spin-Flip in Inelastic Scattering of Protons by ^{28}Si Nucleus.
By Wang Sung Chan, Golubev S.L., Comsan M.N.H., Kurepin A.B., Likhosberstov V.N. and Osetinsky G.M.
Sov. J. Nucl. Phys. 22 (1975) 911.
24. ^{24}Na Spectroscopic Factors and the Structure of Some A=24 Nuclei.
By: M.N.H. Comsan and E.M. Sayed.
Atomkernenergie 27 (1976) 53.
25. Fluctuation Analysis of the Mg 24+d Reaction Leading to Some Highly Excited States in Mg25.
By: M.S. El-Tahawy, M.H.S. Bakr and M.N.H. Comsan
ATKE 31 (1978) 50.
26. Fluctuation Analysis of the Reaction $\text{S}32(d,\alpha)\text{P}30$
By: F. Asfour, M.H.S. Bakr, M.N.H. Comsan, A. El-Kamhawy, M.S. El-Tahawy and M.A. Farouk.
ATKE 31 (1978) 47.
27. The Mechanism of the $\text{P}31(d,p)\text{P}32$ Reaction at Low Deuteron Energies.
By: M.N.H. Comsan
ATKE 31 (1978) 268.
28. The Mechanism of the Reaction $\text{B}^{10}(d,p)\text{B}^{11}$ at low Deuteron Energies.
By: M.N.H. Comsan, A.A. El-Kamhawy, M.A. Farouk and A.N. Oraby.
ATKE 32 (1978) 189.
29. Spin-Flip Probability in Resonance Inelastic Scattering.
By: M.N.H. Comsan
ARE. A.E.E./Rep. 223 (1978).

30. Coulomb Stripping in the Reaction $^{52}\text{Cr}(d,p)^{53}\text{Cr}$.
By: A.H. Azzam, A.M. Bastarous, M.N.H. Comsan, V.M. Mishenko, T.M. Noweir and H.R. Saad.
A.R.E. A.E.E./Rep. 224 (1978).
31. DWBA Analysis of the $^{52}\text{Cr}(d,p)^{53}\text{Cr}$ Reaction at Sub-Coulomb Energies.
By: M.N.H. Comsan
Arab J. Nucl. Sci. & Appl. 12 (1979) 191.
32. A Transistorized Fast-Slow Coincidence Spectrometer for Nuclear Reaction Measurements.
By: M.N.H. Comsan, M.A. Farouk, A. El-Kamhawy and V. Mishenko.
Arab. J. Nucl. Sci. & Appl. 12 (1979) 337.
33. Angular Momentum Mismatch in the Reaction $^{15}\text{N}(^3\text{He},d)^{16}\text{O}$ and the Spectroscopic Factor of the ^{16}O Ground State.
By: M.N.H. Comsan
Arab. J. Nucl. Sci. & Appl. 12 (1979) 417.
34. ^{53}Cr Structure from the Analysis of the $^{52}\text{Cr}(d,p)^{53}\text{Cr}$ Reaction at Sub-Coulomb Energies.
By: M.N.H. Comsan
Arab J. Nucl. Sci. & Appl. 13 (1980) 17.
35. S-Neutron Transfer in (d,p) Stripping Reactions on Mg-Isotopes.
By: M.N.H. Comsan, M.H.S. Bakr and F.I. Asfour
Arab J. Nucl. Sci. & Appl. 13 (1980) 307.
36. Distorted Wave Born Approximation Analysis of $^{16}\text{O}(t,\infty)^{15}\text{N}$ Reaction.
By: M.N.H. Comsan, T.Z. Abou-El-Nasr and A. Abou Elfadl.
Arab J. Nucl. Sci. & Appl. 13 (1980) 383.
37. The $^{59}\text{Co}(p,\alpha)^{56}\text{Fe}$ Reaction in the Microbarn Range.
By: M.H.S. Bakr, F.I. Asfour, M.N.H. Comsan, T.Z. Abou Elnasr and S.A. Hasan.
Arab J. Nucl. Sci. & Appl. 14 (1981) 225.
38. Particle Accelerators in Developing Countries. A Regional Approach.
By: M.N.H. Comsan
Inter. Conf. Nucl. Technology in Developing Countries, Trieste, Italy (1981) D14.
39. Study of the Excited States and Transitions of ^{147}Pm .
By: A. Abdel Haliem, M.R. El-Aassar, F. Asfour and M.N.H. Comsan.
Arab J. Nucl. Sci. & Appl. 15 (1982) 379.

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40. On the Decay of ^{144}Ce .
By: M.R. El-Aasser, A. Abdel-Haliem, F. Asfour and M.N.H. Comsan
Arab J. Nucl. Sci. & Appl. 16 (1983) 283.
41. Study of the Decay Properties of ^{97}Mo (67 h) and the Absolute K Conversion Coefficients Determination.
By: A. Abdel-Haliem, S.A. Said, F. Asfour, M.R. El-Assar and M.N.H. Comsan.
Proc. Math. Phys. Egypt 56 (1983) 57.
42. An Improved Algorithm for Mechanism Separation in Nuclear Reaction.
By: M.N.H. Comsan
Proceedings, 3rd Conference Nuclear Sciences & Applications, Cairo 11-15 Feb. 1984, p. 10.
43. Spectroscopic Factors of ^{29}Si Ground State.
By: M.N.H. Comsan
Proceedings, 3rd Conference Nucl. Sci. & Applications, Cairo 11-15 Feb. 1984, p.11.
44. Licensing Procedure for Nuclear Power Plants in Egypt.
By: A.A. El-Kady, A. Abuzahra, M. Barakat, M.N.H. Comsan and A. El-Sherif
Proceedings, 3rd Conference Nucl. Sci. & Applications, Cairo 11-15 Feb., 1984, p.170.
45. A Survey of the Licensing Procedures of Nuclear Installations in Different Countries.
By: F.H. Hammad, A. El-Kady, M.N.H. Comsan, M. Barakat, A. Abuzahra and A. El-Sherif
Proceedings, 3rd Conference Nucl. Sci. & Applications, Cairo 11-15 Feb., 1984, p.179.
46. Characteristics of a Substandard Neutron Irradiation Facility.
By: M.A. Ali, M.N.H. Comsan, M.A. El-Kolaly, S.K. Youssef and B.A. Henaish
Proceedings, 1st Egyptian British Conference on Biophysics, Cairo 26-28 Oct. 1987, p.201.
47. DWBA Analysis of $^{20}\text{Ne}(d,p)^{21}\text{Ne}$ at Low Deuteron Energies.
By: M.A. Ali and M.N.H. Comsan
Proceedings, 12th International Congress for Statistics, Computer Sciences, Social and Demographic Research, Cairo (1987) p.21.
48. Mechanism of $^{32}\text{S}(d,p)^{33}\text{S}$ Reaction at Low Deuteron Energies.
By: T.M. Noweir, M.A. Ali and M.N.H. Comsan.
Proceedings of the 4th Conference of Nuclear Sciences and Applications, Cairo (1988) 684.
49. Analytical l -Dependent Folding Potential According to Alpha-Cluster-I.
By: M.Y.M. Hassan, M.N.H. Comsan and I.M.A. Tageldin.
Annalen der Physik 46 (1989) 207.

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50. Study of the Optical Potential for Hadron-Nucleus Scattering using Glauber's Theory.
By: I.M.A. Tag Eldin, E.H. Esmael, M.Y.M. Hassan and M.N.H. Comsan
J. Phys. G.: Nucl. Part. Phys. 16 (1990) 1051-1076.
51. Single Folding Potential for Nucleon Scattering on Light Deformed Nuclei.
By: M.N.H. Comsan, M.Y.M. Hassan and I.M. Tag Eldin
Egypt. J. Physics, Vol. 21, No. 1-2 (1990) 23-41.
52. Elastic Scattering of Intermediate Energy Hadrons from ^{12}C .
By: I.M.A. Tag Eldin, E.H. Esmael, M.A.M. Hassan and M.N.H. Comsan
J. Phys. G: Nucl. Part. Phys. 17 (1991) 271-288.
53. The Swelling Effect on Proton ^{12}C Elastic Scattering
By: E.H. Esmael, M.Y.M. Hassan M.N.H. Comsan and I.M.A. Tag Eldin.
Egypt. J. Phys. 23(1992)1-16.
54. A Cyclotron Laboratory at the Nuclear Research Centre Atomic Energy Authority.
By: M.N.H. Comsan and F.I. Asfour
Joint Seminar IRPS-AEA on Current Trends in Radiation Physics, Cairo, Nov. 1992, pp. 4-6.
55. Electrical Conducting Film Flow Down an Inclined Wavy Plate.
By: M.A. Khidr, A.G. El-Sakka and M.N.H. Comsan
J. Fac. Ed. 19 (1994)
56. Two-Phase Flow in a Sinusoidal Channel When One of the Phases is Electrically Conducting
By: M.A. Khidr, A.G. El-Sakka, M.N.H. Comsan and M.M. Abd El-Khalik.
J. Fac. Ed. 19 (1994) 23.
57. Motion of a Suspended Particle in a Viscous Fluid
By: M.A. Khidr, M.N.H. Comsan, M.M. Abd El-Khalik and M.A. Ali
J. Fac. Ed. Special Issue, 1st Nat Conf. of Math. and Phys. Sci & Appl. 27-30 Nov. 1995, p.1.
58. Motion of a Suspended Charged Particle in Multi-Phase Flow.
By: M.A. Khidr, M.N.H. Comsan, M.M. Abd El-Khalik and M.A. Ali
J. Fac. Ed., Conf. of Math. and Phys. Sci. & Appl 27-30 Nov. 1995, p.17.
59. Shielding Calculation for Inshas Cyclotron
By: M.N.H. Comsan
Radiation Physics and Chemistry, 47 (1996) 735-738.

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60. Design Features of Radioisotope Production Facility at Inshas Cyclotron Complex.
By: M.N.H. Comsan
Proceedings of the 6th Conference of Nuclear Sciences and Applications, Cairo, Egypt, 15-20 March. 1996.
61. Cyclotrons and Their Utilization
By: M.N.H. Comsan
Proceedings of the Egyptian-Russian School and Workshop on Cyclotrons and Applications, Cairo, Egypt, 23-27 March 1996, pp.1-25.
62. Radiation Shielding of Low Energy Ion Acceleration.
By: M.N.H. Comsan
Proceedings of the Egyptian-Russian School and Workshop on Cyclotrons and Application, Cairo, Egypt, 23-27 March, 1996, pp.256-272.
63. Layout of Inshas Cyclotron Complex
By: M.N.H. Comsan
Proceedings of the Egyptian Russian School and Workshop on Cyclotrons and Applications, Cairo, Egypt, 23-27 March, 1996, pp. 274-293.
64. Status of Inshas Cyclotron Building Construction
By: M.N.H. Comsan
Proceeding of the 2nd School and Workshop on Cyclotrons and Applications, Cairo, 15-19 March, 1997, pp.30-37.
65. Motion of the Phase Media in the Space Between Piping.
By: M.M. Abd El-Khalik and M.N.H. Comsan
Proceeding of the 2nd School and Workshop on Cyclotrons and Applications, Cairo, 1997, pp.436-444.
66. Numerical Simulation of Multi-Phase Flow in a Channel.
By: M.M. Abd El-Khalik and M.N.H. Comsan.
Proceedings, Conference on Nuclear & Particle Physics, Cairo, 15-19 Nov.1997, pp.484-497.
67. Integrating Neural Networks and Expert Systems for Fault Diagnosis of MGC-20 Cyclotron.
By: M.M. Syiam, O.M. Badr, M.N.H. Comsan and M.M.A. Dewidar
10th International IEA/AIE Conference, June 10-13, 1997.
68. External Beam Possibilities for the MGC-20 Cyclotron Project in Egypt.
By: M.N.H. Comsan et al.
Proceedings of 15th International Conference on Cyclotrons and their Applications, Caen, France, 14-19 June. 1998.

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69. Tandem Accelerator Facility at Inshas
By: M.N.H. Comsan
Proceedings of the 6th European Particle Accelerator Conference, Stockholm, Sweden, 22-26 June 1998.
70. Estimated Leakage Radiation from Inshas Cyclotron.
By: M.N.H. Comsan
Proceeding of the 15th International Conference on the Application of Accelerators in Research and Industry, Denton, Texas, U.S.A., 4-7 November, 1998, pp. 1139-1143.
71. A Mathematical Analysis of Unsteady Flow and Heat Transfer in a Porous Medium.
By: M.M. Abd El-Khalek and M.N.H. Comsan
Proceedings of the 4th Rad. Phys. Conf., Alexandria, Egypt, 15-19 Nov. 1998.
72. Flow Induced in Fluid Particle Suspension by Two Parallel Plates.
By: M.M. Abd El-Khalek and M.N.H. Comsan
Accepted (35/1998) in Arab Journal of Nuclear Sciences and Applications.
73. Laminar Two-phase Non-Newtonian Flow Through a Pipe.
By: M.M. Abd El-Khalek and M.N.H. Comsan
Accepted (36/1998) in Arab Journal of Nuclear Sciences and Applications.
74. Unsteady Free Convection in Hydromagnetic Flows Through a Porous Medium
By: M.M. Abd El-Khalek and M.N.H. Comsan
Accepted (12/10/1998) in Egyptian Journal of Physics.
75. Implantation of Ions of Cyclotron Energy Range :The Current State of the Art.
By: B. Slowinski, A. Adawi and M.N.H. Comsan
Proceedings of the 3rd Conference and Workshop on Cyclotrons and Applications, Cairo, Feb. 1999 p. 266.
76. Nuclear Data for Proton Activation Analysis
By: S. Mukhammedov, A. Vasidov and M.N.H. Comsan
Proceedings of the 2nd Conference on Nuclear and Particle Physics, Cairo , Nov. 1999 p. 153.
77. Current Status of Inshas Cyclotron
By: M.N.H. Comsan
Proceedings of the 4th Conference and Workshop on Cyclotrons and Applications, Cairo, Feb. 2001, p.2.

78. Start-Up Works on Inshas Cyclotron
By: M.F. Vorogushin, A.P. Strokach, V.Ya. Shikhov, A.V. Galchuk, A.H. Soliman , M. El-Abyad, M.N.H. Comsan, Z.A. Saleh and A.H. Azzam.
Proceedings of the 4th Conference and Workshop on Cyclotrons and Applications, Cairo, Feb. 2001, p. 25.
79. Characterization of Cyclotron Monoenergetic Neutron Producing Reactions.
By: Ahmed H.M. Solieman, M.N.H. Comsan, Anwar A. Elsayed and Wael M. Elshemey
Proceedings of the 4th Conference and Workshop on Cyclotrons and Applications, Cairo, Feb. 2001, p. 216.
80. Possibilities of the Use of a U-150 Russian Cyclotron in the Activation Analysis.
By: S. Mukhammedov and M.N.H. Comsan
Proceedings of the 4th Conference and Workshop on Cyclotrons and Applications, Cairo, Feb. 2001, p. 274.
81. A Study for the Feasibility of Introducing an Accelerator Mass Spectrometer Facility (AMS) for C-14 Applications
By: A.I.M. Aly, M.N.H. Comsan and M. Sadek
Proceedings of the 4th Conference and Workshop on Cyclotrons and Applications, Cairo, Feb. 2001, p. 309.
82. Transmutation of Radioactive Nuclides: Basic Conceptions and Results.
By: B. Slowinski, Kh.M. Hella and M.N.H. Comsan
Proceedings of the 3rd Conference on Nuclear and Particle Physics, Cairo, 20-24 Oct. 2001, p. 40.
83. Evaluation of Double Differential Yield as Used for Representation of Neutron Spectra.
By: A.H.M. Solieman and M.N.H. Comsan
Proceedings of the 3rd Conference on Nuclear and Particle Physics, Cairo, 20-24 Oct. 2001, p. 223.
84. Status Report of Inshas Ion Accelerators.
By: M.N.H. Comsan
5th Conference and Workshop on Cyclotrons and Applications, Cairo, 22-26 Feb. 2003, pp.7-15.
85. Monitoring of Proton Beam for the MGC-20 Cyclotron at Inshas Facility.
By: M. Al-Abyad, H.E. Hassan, A.H. Azzam, M.E. Abdel-Mohsen and M.N.H. Comsan
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Last Updated: 6/12/2009