

CURRICULUM VITAE

Name: MOHAMMED SHERIF YEHIA

Email : m.sheriff@uninettunouniversity.net

Education :

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| [Ein Shams University]
[Cairo, Egypt]
[B.Sc./Major Physics] | 1976 |
| [University of Cincinnati]
[Cincinnati, Ohio USA]
[M.Sc/Major Physics] | 1985 |
| [University of Cincinnati]
[Cincinnati, Ohio USA]
[Ph.D./Major Physics] | 1987 |

Professional Experience:

- 1977-1982 Teaching Assistant , Physics Dept. Faculty of Education- Damiatta - Egypt
- 1982-1987 Teaching Assistant , Physics Dept. Faculty of Science- Damiatta - Egypt
- 1987-1990 Faculty member, Physics Dept. Faculty of Science - Damiatta Egypt
- 1990-1996 Assistant Professor ,Physics Dept. Yanbu Industrial College Yanbu Al -Sinayiah - Saudi Arabia
- 1996-1998 Faculty member, Physics Dept. Faculty of Science - Damiatta Egypt .
- 1998--2000 Faculty member, Physics Dept. Faculty of Science - Helwan University Cairo-Egypt.
- 02/12'2000-06/17/2000 Visiting Professor , physics department at United Arab Emirates University
- 2000-present Assistant professor, Physics Dept. Faculty of Science - Helwan University Cairo-Egypt

Conferences Attended By Sherif Yehia

1. "A statistical mechanics-based model for uniaxial ferromagnetic systems" ICM 2003 international conference on Magnetism Roma, Italy • July 27 – August 1 • 2003
2. "Ninth WIEN-WORKSHOP L/APW+lo calculations with the WIEN2k code " April 23-26 ,2003 Vienna , AUSTRIA
3. UNESCO workshop on: Building an Interactive Physics Course in an

Open Source Environment in Suez Canal University (SCU) Ismalia ,Egypt
from April 30th to May 3th 1999.

4. “HYPERFINE MAGNETIC FIELD IN HEUSLER ALLOYS
CO₂MNZ(Z= Si,Ga,Ge AND Sn) . SUBMITTED FOR THE MARCH
MEETING OF THE AMERICAN PHYSICAL SOCIETY 21-25
MARCH –1988.
5. “MOSSBAUER MEASUREMENT OF THE Sn-119 HYPERFINE
MAGNETIC FIELD CO₂TeiZ(Z= Si,,Ge) . SUBMITTED FOR THE
MARCH MEETING OF THE AMERICAN PHYSICAL SOCIETY
21-25 MARCH –1988.
6. “Fe-57 AND Sn-119 MOSSBAUER STUDIES IN HIGH T_C
SUPERCONDUCTORS La₂CuO₄ ,YBaCuO_x , SmBa₂ Cu₃O_x”
SUBMITTED FOR THE MARCH MEETING OF THE AMERICAN
PHYSICAL SOCIETY 21-25 MARCH –1988. Workshop on “Towards the
theoretical understanding of high T_C superconductors Trieste ,Italy 20 June 1988
7. “TEMPERATURE VARIATION OF HYPERFINE MAGNETIC FIELD IN
CO₂ Mn Z AND CO₂ Ti Z (Z= Si, Ge, Sn)” International conference on
Magnetism - Paris, France July 25-29, 1988
8. “ANTIFERROMAGNETISM IN La₂ Cu O_{4-y} ” International Conference Nuclear
Methods in Magnetism August - Munich, Germany August 1-4, 1988.
9. “HYPERFINE MAGNETIC FIELDS IN Co₂ Mn Sn Pd_{1.2} Ag₈ Mn In “
Submitted for the 52 Akron Meeting Of the Ohio Section Of the Aps Akron-
Ohio, USA May 1-2, 1987.
10. “HIGH TEMPERATURE SUPERCONDUCTOR Yba₂ Cu₃ O_{7-x}” First Arab
Symposium of Materials Science - Alexandria, Egypt December 29-31, 1987.

Thesis Supervised at Mansoura University

1-M.I. Youssif Ph.D. Study of Magnetic Properties of High Critical
Temperatures Superconductors awarded May 1992.

2-Mohamed Mahgoub M.Sc. A theoretical study of the magnetic properties of
some Rare-Earth transition metal compounds. awarded March 2003

Thesis Supervised at Helwan University

1-Samy Abd-El-Mordy M.Sc. Solar constant observations as a measure of solar
energy utilization at big Cairo. Awarded September 2000.

2-Mamdouh Abd El-Menam M.Sc. Magnetic Properties of Rare-Earth Transition
metal alloys using computer Simulation. Awarded June 2001

3-Abeer Esmat Aly M.Sc. 2005 Electronic structure of material using energy band calculation .

Thesis currently Supervised at Helwan University

Mona Abdo Ahmed M.Sc. 2005 Ab initio Calculation of Electronic band structure of a selected Heusler alloy.

Thesis currently Supervised at Mansoura University

Mervat Mohamed M.Sc. 2003 Study on the Magnetic Properties of magnetically ordered materials. Expected to be awarded in one year.

Thesis currently Supervised at Ain-Shams University

Nesreen El-Shamy Ph.D 2006 Calculation of Electronic band structure and magnetic properties of a selected Heusler alloy

Teaching experience

1- Mansoura University (1987 - 1990) Faculty Of Science Damietta. General Physics, Nuclear Physics, Quantum Mechanics, Electrodynamics, Statistical Mechanics, Solid State and Topics in Physics (Graduate)

2- Yanbu Industrial College (1990 - 1996) Saudi Arabia
General Physics, Alternating And Direct Current, Calculus and Algebra (*This college followed the credit hour system and teaching is conducted in English*).

3- Emirate University (1999-2000)
Statistical Mechanic- General Physics-Engineering Physics

4- Helwan University (1996-Present)
Faculty of Science: Statistical Mechanics, Mathematical Physics ,
Special Relativity and General Physics.

5- Ain Shams University (2004-Present)
Faculty of Science: Statistical Mechanics, Mathematical Physics ,Solid state physics and Environmental Physics.

Computer experience

Good knowledge of FORTRAN ,BASIC and C ++ languages, Good user of Linux system (Red Hat V.9) I am using "WIEN2K" package trying to apply the Augmented Plane Wave method plus local Orbital program for calculating **magnetic crystal properties. Hope to start base in Egypt for band calculation .**

Special interest in the MATHEMATICA programming language and ability to teach Calculus and Physics using it. Results of my latest publications (6-8) have been achieved by the use of MATHEMATICA and FORTRAN. Good user of the Internet.

I am designing an electronic course of physics for engineering students.

Publications:

- 1." A Mean-Field Study of the Magnetic and Magneto-Thermal Properties of Selected Amorphous R_x-Fe_{1-x} and Crystalline $RFe_{10}V_2$ Systems" S. H. Aly Sherif Yehia G. El-Alfi and M. Hammam. To be published in the American Institute of Physics (AIP) 2006.
- 2."A Model for Calculating Magnetization Curves of Ferromagnetic Materials : a Review" S. H. Aly Sherif Yehia , N. El-Wazzan, M. Soliman, M. Mahgoob. To be published in the American Institute of Physics (AIP) 2006.
- 3." Electronic Band Structure and Magnetic Moment of $SmCo_4B$ " Sherif Yehia To be published in the American Institute of Physics (AIP) 2006.
- 4." A Statistical Mechanics-Based Model for Cubic and Mixed-Anisotropy Ferromagnetic Systems." S. Aly Sherif Yehia M. Soliman, , N. El-Wazzan accepted abstract in the **50th ANNUAL CONFERENCE ON MAGNETISM AND MAGNETIC MATERIALS** San Jose, California , October 30-November 3, 2005
- 5." A Statistical Mechanics-Based Model for Cubic and Mixed-Anisotropy Ferromagnetic Systems." S. Aly Sherif Yehia M. Soliman, , N. El-Wazzan accepted abstract in the **50th ANNUAL CONFERENCE ON MAGNETISM AND MAGNETIC MATERIALS** San Jose, California , October 30-November 3, 2005
6. "Electronic Band Structure, Magnetic Moment and Magnetocrystalline Anisotropy of $SmCo_5$ " Sherif Yehia M. Hammam, ,A. Hamid, A. Aly, S.Aly accepted abstract in the **50th ANNUAL CONFERENCE ON MAGNETISM AND MAGNETIC MATERIALS** San Jose, California , October 30-November 3, 2005
- 7."**Band structure calculation and magnetic anisotropy energy of $SmCo_5$** " International Journal of Pure and Applied Physics Sherif Yehia S. Aly , A. E. Aly , A. S. Hamid , M.Hammam. accepted May (2005).
- 8."A statistical mechanics-based model for uniaxial ferromagnetic systems" Journal of Magnetism and Magnetic Materials "S. Aly, Sherif Yehia , M. Mahgoob 272–276 (2004) 726–727.
- 9." Magnetic properties of ferromagnetic systems : A Statistical-Mechanics study " Egyptian journal of Mathematics Cairo University Sherif Yehia , S. Aly, M. Mahgoob submitted June(2004).
- 10." Studying the optical properties by the normal incidence of the solar radiation over four selected Sites in Egypt. The 7th international conference on solar energy and Applied photochemistry [solar'03] Combined with the 4th international workshop on environmental photochemistry [ENPHO 'o3] R.H.Hamid, A.A.Galal, M.Hammam Sherif Yehia and Samy A. Khalil 23-28 February 2003 Luxor, Egypt.
- 11."Investigation of the accumulated affect of the atmospheric pollution on the received solar radiation at Cairo, Egypt Atmospheric Environment R.H.Hamid, A.A.Galal, M.Hammam Sherif Yehia and Samy A. Khalil(accepted for publication 10-2002)

12. "A COMPUTER SIMULATION STUDY ON A TWO-SUBLATTICE MAGNETIC SYSTEM" Journal of Magnetism and Magnetic Materials Samy H. Aly and Sherif Yehia 213(2000)383-388.
13. "MAGNETIC ANISOTROPY AND SPIN REORIENTATION IN $\text{Nd}_2\text{Fe}_{14}\text{B}$ " Journal of Magnetism and Magnetic Materials Sherif Yehia and Samy H. Aly 212(2000)195-200.
14. "THERMAL EFFECTS ON TWO -SUBLATTICE MAGNETIC SYSTEMS" Journal of Magnetism and Magnetic Materials 202 (1999)565-569 Samy H. Aly and Sherif Yehia.
15. "THERMOMAGNETIC PROPERTIES OF SOME RARE-EARTH TRANSITION METAL ALLOYS" S.H. Aly and Sherif Yehia Submitted in the XXI Conference on Solid State and workshop on Silicon Technology in Optoelectronics 23-26 February, 1999.
16. " TORQUE AND MAGNETIZATION STUDY OF THE CANTING MODEL " Journal of Magnetism and Magnetic Materials 150 (1995) 247-252 Sherif Yehia.
17. " MOSSBAUER STUDIES OF ^{57}Co -DOPED LAYERED PEROVSKITES". Hyperfine Interactions 55(1990) 1323-1326. S.Jha, D. Suyanto, Sherif Yehia , G. Julian, R Dunlap , A. Lahamer, S. Cheong, Z. Fisk and J. Thomposon.
18. "ANTIFERROMAGNETISM IN ^{57}Co -DOPED $\text{La}_2\text{CuO}_{4-Y}$ STUDIED BY MOSSBAUER SPECTROSCOPY" Hyperfine Interactions 50 (1989) 607-612. S. Jha, C. Mitros , A. Lahamer, Sherif Yehia, G. Julian, R. Dunlap, G. Stroink and Z. Standnik.
19. "HYPERFINE MAGNETIC FIELD ON Cd-111 IN HEUSLER ALLOYS Co_2MnZ (Z=Si, Ge, Sn)" Hyperfine Interactions 51 (1989) 987-992. S. Jha, Sherif Yehia, C.Mitros, A. Lahamer, G. Julian, and R. Dunlap.
20. "PREPARATION AND CHARACTERIZATION OF THE HIGH - TEMPERATURE SUPERCONDUCTOR $\text{Yba}_2\text{Cu}_3\text{O}_{7-x}$ ". Journal of Materials Science Letters 8(1989) 315-317 A. Bahgat, Sh. El-Desouki, E. Shaisha, M. Kaled, Sherif Yehia, A. Sabry and I. Shaltot.
21. " TEMPERATURE VARIATION OF HYPERFINE MAGNETIC FIELD IN CO_2MnZ AND CO_2TiZ (Z= Si, Ge, Sn)" Journal De Physique 1988, C8-137. S. Jha, Sherif Yehia, C. Mitros, A.Lahamer, G. Julian and R. Dunlap.
22. "FE-57 AND Sn-119 MOSSBAUER STUDY OF $\text{La}_2\text{CuO}_{4-Y}$, $\text{YBa}_2\text{Cu}_3\text{O}_{7-Y}$ AND $\text{SmBa}_2\text{Cu}_3\text{O}_{7-Y}$." Physica C 153-155 (1988) 1555-1556. S. Jha, C. Mitros, Sherif Yehia, A. Lahamer, G. Julian , R. Dunlap, R. O'Handley and M. Mchenry.
23. "HIGH TEMPERATURE SUPERCONDUCTOR $\text{Yba}_2\text{Cu}_3\text{O}_{7-x}$ ". A.A. BAHGAT AND SHERIF YEHIA submitted for the First Arab Symposium of Materials Science, Alexandria , Egypt, December 29-31, 1987.
24. "VOLUME OVERLAP MODEL AND HYPERFINE MAGNETIC FIELD IN HEUSLER ALLOYS Co_2MnZ (Z= Al, Ga, Si, Ge and Sn)". With A. Lahamer, Sherif Yehia, C. Mitros, S. Jha, G. Julian and Dunlap. Submitted for THE ESAPS Meeting of the American Physical Society, November 23-25, 1987.

25. "HYPERFINE MAGNETIC FIELDS IN $\text{Co}_2 \text{Mn Sn Pd}_{1..2} \text{Ag}_8 \text{Mn In}$ " with **Sherif Yehia** et al, 1987 **Submitted for the Akron Meeting of the Ohio Section of the APS.** Akron , Ohio, USA May 1-2, 1987.
26. "HYPERFINE MAGNETIC FIELDS AT sp-SITES IN $\text{Co}_2 \text{YZ HEUSLER ALLOYS.}$ " **Hyperfine Interactions**, 34, 1987, 415-418. **Sherif Yehia**, C. Mitros, S. Kumar, S. Jha, G. Julian, and R.A. Dunlap.
27. "HYPERFINE MAGNETIC FIELD MEASUREMENTS IN HEUSLER ALLOYS $\text{Ni}_2 \text{Mn Ga, Pd}_2 \text{Mn Sn, and Ru}_2 \text{Fe Sn.}$ " **Hyperfine Interactions**, 34, 1987, 419-422. C.Mitros, **Sherif Yehia**, S. Kumar, S. Jha, M. Demarco, D. Mitchell, G. Julian and R. Dunlap.
28. "TDPAC AND MOSSBAUER MEASUREMENTS OF HYPERFIEN FIELDS IN CHROMIUM-BASED CHALCOGENIDE SPINELS." **Hyperfine Interactions**, 34, 1987, 423-426. S. Jha, M. Elfazani, **Sherif Yehia**, C. Mitros, S. Kumar, R. Dunlap, A. Vasquez, J. Dacunha and S. Ramos.
29. "MOSSBAUER MEASUREMENTS OF THE HYPERFINE MAGNETIC FIELDS AT sp SITE IN HEUSLER ALLOYS $\text{Rh}_2 \text{Mn Z (Z=In and Sb),}$ " **Hyperfine Interactions**, 28, 1986, 491-494. S. Jha, H. Seyoum, **Sherif Yehia**, C. Mitros, G. Julian, R. Dunlap, A. Vasquez, J. Da Cunha and S. Ramos.