

## Ahmed Kamel Mohamed Hassan Tammam

### Personal Details

Address            Physics department, Faculty of Science, Cairo University, Egypt  
Date of Birth     24<sup>th</sup> April, 1984.  
Gender:            Male  
Status:            Married  
Nationality:      Egyptian.  
Telephone:       +2-0114-7712971  
E-mail:            [akamel@sci.cu.edu.eg](mailto:akamel@sci.cu.edu.eg)

### Qualifications

- 2011-2015        **Ph.D.** Degree in Solid State Physics. *Physics Department, Faculty of Science, Cairo University, Egypt.*  
**“Electric- magnetic study of organic- inorganic hybrid semiconductors and manganites perovskites”**
- 2009-2010        **Ph.D course work**, in Solid State Physics. *Physics Department, Faculty of Science, Cairo University, Egypt.*
- 2005-2009        **M.Sc.** Degree in Solid State Physics. *Physics Department, Faculty of Science, Cairo University, Egypt.*  
**“Structure and Ferroelectric Relaxor properties in the Ruddlesden-Popper Perovskites”**
- 2004-2005        **Masters course work**, in Solid State Physics. *Physics Department, Faculty of Science, Cairo University, Egypt.*
- 2000-2004        **B.Sc.** Major Physics. *Physics Department, Faculty of Science, Cairo University, Egypt.*    Grade : **Excellent with honor.**  
Rank on faculty: 5<sup>th</sup>

### Research Interests

Material Science, Solid State Physics, Dielectrics, Magnetoresistance materials.

### Teaching Interests

**Courses:** Electronics, Thermodynamics, Classical Mechanics and Classical Electromagnetism, Computer science.

**Tutorials:** Thermodynamics, Classical Mechanics and Statistical Mechanics.

**Labs:** Fundamental Physics, Electronics and Optics, Computer science.

## Professional experience

- 2015 – now      Lecturer, Faculty of Science, Cairo University, Egypt.  
I've worked as a lecturer, teaching electromagnetism, and supervising Electronics and optics lab. sessions, 20 hours per week.
- 2009 – 2015      Lecturer Assistant, Faculty of Science, Cairo University, Egypt.
- 2004 – 2009      Teaching Assistant, Faculty of Science, Cairo University, Egypt.  
I've worked as an assistant lecturer, teaching electronics, computerized experiments in physics, and supervising problem sessions, 24 hours per week.

## Honors, Grants and Scholarships

- 2018              Best physics PhD thesis of the year
- 2011              The typical lecturer assistant at Physics department- Cairo University Prize award.
- 2005              Prof. M. Mukhtar prize for the best physics graduates.
- 2005              Cairo University prize award.
- Dec 2003        Schlumberger prize for the best student performance.  
Cairo University.
- Dec 2002        Schlumberger prize for the best student performance.  
Cairo University.

## Projects, Workshops, Schools and Conferences

- A member of organizing committee of The Egyptian Physicists Workshop, Cairo University (21-4-2018).
  
- A member of EU TEMPUS project SOLEDA team (2014-2016). Project, which has developed a Master program in Solar Energy for Egyptian Universities. Project has been hosted mainly by **Heriot Watt University- Scotland** and partnerships of Cairo University, Fayoum Uni, South Valley Uni, Athena Uni, and Solar institute in Julich-Germany.
  
- THE XXX INTERNATIONAL CONFERENCE ON Materials Science and Applications & WORKSHOP ON Functional Materials 25 - 28 November 2012 Marsa Alam, Egypt.
  
- Summer School on Condensed matter physics, (15-5-2011 to 5-6-2011) Joint institute for Nuclear research (JINR), **Dubna, Russia**.
  
- THE XXVII CONFERENCE of Solid State Science and Materials Physics WORKSHOP Functional Nanostructures and Hybrid Organic-Inorganic Materials 22th - 25th March 2010 Fayoum, Egypt.
  
- 1<sup>st</sup> & 2<sup>nd</sup> conference on Physics, organized by the Physics Department, Faculty of Science, Cairo University, 2004 & 2006.

## **RESEARCH WORK**

### **Publications:**

- **A.K. Tammam**, Zaki Kahlifa, Samy A. Elsayed “First and second phase transition discovery in amorphous chalcogenide Se<sub>60</sub>Te<sub>30</sub>S<sub>10</sub> composition” **Journal of Non-Crystalline Solids**, Vol. **529**, 1 February 2020, 119729.
  
- M. F. Mostafa\*, **A. K. Tammam** and Dina Gawad “Impedance Spectroscopic and Phase Transition Study of A New Organic – inorganic Alkali Earth Hybrid” *Egypt. J. Phys.* Vol. **46**, pp. 7-15, 2018.
  
- Mostafa, M. F., **A. K. Tammam**, T. S. E. Dean, and S. S. Atallah, "Mg doping of LaSrFe manganite: Magnetic and electric study", *Physica B: Condensed Matter*, vol. 517, pp. 10-18, 2017.
  
- Mostafa, M. F., T. S. E. Dean, and **A. K. Tammam**, "Characterization, phase change and conductivity crossover of new luminescent ferroelectric Mn (II) organic-inorganic hybrid", *Materials Chemistry and Physics*, vol. 180, pp. 373-382, 2016.
  
- **Tammam, A. K.**, T. H. S. H. EL-DEAN, and M. F. Mostafa, "Ferroelectricity in a New Luminescent OrganicInorganic Hybrid: [CH<sub>3</sub>(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>P]<sub>2</sub>MnBr<sub>4</sub>", *Ferroelectrics*, vol. 481, pp. 34-40, 2015.
  
- Mostafa, M. F. M., S. K. Abelal, and **A. K. Tammam**, "Crystal structure, thermal, electric and magnetic study of [(CH<sub>2</sub>)<sub>7</sub>(NH<sub>3</sub>)<sub>2</sub>]CoCl<sub>2</sub>Br<sub>2</sub>", *Indian Journal of Physics*, vol. 88, issue 1, pp. 49-57, 2014.
  
- “**Characterization, phase transitions and electric properties of new luminescent Mn(II) organic-Inorganic hybrid**”  
*By: M.F. Mostafa, Th. Sh. El-Dean, A.K. Tammam*  
*Fourth International Conference on Multifunctional, Hybrid and Nanomaterials 9-13 March 2015, Sitges (near Barcelona), Spain*
  
- “**Magnetic and electric study of (Fe/Mg) doped Lanthanum manganite**”  
*By: M.F. Mostafa, S.S. Ata-Allah, Th. Sh. El-Dean, A.K. Tammam*  
*THE XXX INTERNATIONAL CONFERENCE ON Materials Science and Applications & WORKSHOP ON Functional Materials 25 - 28 November 2012 Marsa Alam, Egypt.*
  
- “**Incommensurate and ferroelectric Phase Transitions of the new Ruddlesden-Popper perovskite: [(CH<sub>3</sub>) (C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>P]<sub>2</sub>CdBr<sub>4</sub>**”  
*By: Th. Sh. El Dean, A. K. Tammam and M. F Mostafa*  
*THE XXX INTERNATIONAL CONFERENCE ON Materials Science and Applications & WORKSHOP ON Functional Materials 25 - 28 November 2012 Marsa Alam, Egypt.*

## **SUPERVISION:**

- Dina A. Abdelgawad- M.Sc 2018 – University of Cairo- worked as a teaching assistant at Physics department, University of Cairo

## **Skills**

Computing: Origin, Office, Mathematica, Open office.

Languages: English (v.good) and Arabic (fluent).

**Contact Professors** available when required.