

# Curriculum Vitae



## Personal:

**Name** *Kazem Naficy*  
**Date of birth** *Sep.21, 1959*  
**Marital Status** *Married*  
**Nationality** *Iranian*  
**Permanent Address** *Physics Department,  
University of Birjand, Khorasan-Jonobi, Iran,  
P.O. B: 97175-615*  
**Telephone** *+98 – 56-32202201-3*  
**E-mail** [\*naficykazem@yahoo.com\*](mailto:naficykazem@yahoo.com)  
[\*naficy@birjand.ac.ir\*](mailto:naficy@birjand.ac.ir)  
**Languages** *Persian, English*

## Field of Specialization:

*Variable Stars, Eclipsing Binary, Extrasolar Planets, Computational Physics*

## Education:

**B. Sc.** *Feb 1986* *Physics, Ferdowsi University of Mashhad, Iran.*  
**M. Sc.** *Feb 1992* *Solid State Physics, Tarbiat Modares University, Iran.*  
**Ph.D.** *Feb 2006* *Isfahan University, Iran*

### **Title of Ph.D. thesis:**

*Observation and Analysis of RZ Cas System and Investigating 13*

*Extragalactic Eclipsing Binaries*

## Courses taught :

### **a. B.SC. Courses**

1. *General Physics I, II,*
2. *Modern Physics*
3. *Classical Mechanics I, II*
4. *Quantum Mechanics I, II*
5. *Solid State Physics I*
6. *Crystallography*
7. *Electromagnetism I, II*
8. *Electronics*
9. *Astronomy*

### **b. Graduate & PhD Courses**

1. *Advanced Quantum Mechanics I*
2. *Electrodynamics*
3. *Astrophysics*
4. *Structure and Evolution of Stars*
5. *Special Topics in Astronomy*
6. *Advanced Astrophysics I (Ph.D.)*

## Publications

*Five Farsi papers in Iranian journals (1992, 1994, 1998, 2002, 2004)*

6. NAFICY, K., RIAZI N., KIASATPOUR A., "*FIRST-APPROXIMATION, SEMIANALYTICAL SOLUTIONS OF PARTIAL ECLIPSING BINARIES*", *ASTRONOMICAL JOURNAL*, No. 130 ,PP. 1862-1870, 2005.
7. NAFICY, K., KIASATPOUR, A., RIAZI, N. "*Period change and  $\delta$  Scuti Pulsations of Eclipsing Binary Star RZ Cassiopeiae*", *IRANIAN JOURNAL OF RESEARCH PHYSICS*, Vol. 9, No. 3 , 2009.

8. NAFICY, K., AYUBINIA, A., SAEEDI, M., "Exponential law as a more compatible model to describe orbits of planetary systems", *IRANIAN JOURNAL OF RESEARCH PHYSICS*, Vol. 12, No. 3, PP. 25-31, 2012.
9. Hosseinirad, M., Naficy, K., Abbassi, Sh., Roshan, M., "Gravitational instability of filamentary molecular clouds, including ambipolar diffusion", *Monthly Notices of the Royal Astronomical Society (MNRAS)* 465, 1645–1653 (2017); doi:10.1093/mnras/stw2820
10. Hosseinirad, M., Abbassi, Sh., Roshan, M., Naficy, K., "Gravitational instability of filamentary molecular clouds, including ambipolar diffusion; non-isothermal filament", *Monthly Notices of the Royal Astronomical Society (MNRAS)* 475, 2632–2641 (2018); doi:10.1093/mnras/stx3353
11. A.R. Peivand, K. Naficy and G.H. Bordbar, "Strange Quark Star in Dilaton Gravity", *Research in Astronomy and Astrophysics (RAA)* Vol. 19, No. 6, 78(14pp)(2019); doi: 10.1088/1674-4527/19/6/78
12. Kayanikhoo, F., Naficy, K. & Bordbar, G.H. Influence of strong magnetic field on the structure properties of strange quark stars. *Eur. Phys. J. A* 56, 2 (2020) doi:10.1140/epja/s10050-019-00004-y

## **Conferences**

*More than 30 papers presented in national conferences*

## **Books**

1. *Tests of Mechanics*. ISBN: 964-92233-8-X (2000)
2. *Foundations of Electromagnetic Theory (translated, Shared with Dr. GH. Sepidnam)* ISBN: 978-964-2927-66-1 (2012)

3. *The Essential Cosmic Perspective, Vol 1, (translated, Shared with M.Saeedi, A.Ayubinia), University of Birjand, ISBN: 987-622-99137-4-1 (2018)*

4. *The Essential Cosmic Perspective, Vol 2, (translated, Shared with F. Habibi, M.Saeedi, ), University of Birjand, ISBN: 987-622-6582-02-5 (2019)*

### **Doctoral students:**

1. *Mr. M. Hosseini rad (Shared with Dr. Sh. Abbassi)*
2. *Mr. A. Peivand (Shared with Dr. Bordbar)*
3. *Mr. Sh. Naeemabadi*
4. *Miss. F. Kianikhoo (Shared with Dr. Bordbar)*

### **MSc students:**

1. *Miss. M. Parsa (Shared with Dr. Sh. Abbassi)*
2. *Mr. H.R. Gholamhosein pour*
3. *Mr. M.T. Shirzad*
4. *Miss. A. Ayubinia*
5. *Miss. M. Saeedi*
6. *Miss. S. Akhoond zadeh*
7. *Miss. Z. Rezaian*
8. *Miss. S. Tashakori zadeh (Shared with Dr. J. Fatemi)*
9. *Miss. A. Shokooh Saljooghi (Shared with Dr. A.R. Mohammad nejad)*
10. *Miss. T. Rangani*
11. *Mr. M.A. Rostami nejad*
12. *Mr. A.A. Yari nodar (Shared with Dr. A.R. Mohammad nejad)*
13. *Mr. M. Hadavi*
14. *Miss. B. Zaeemi*
15. *Mrs. M. Soodkhah Mohammadi*
16. *Mr. A. Alipour*
17. *Mrs. M. Balideh*
18. *Mrs. Z. Fadaee fard*

### **Research project**

1. *Construction of PZT piezoelectric ceramics in laboratory scale, Mashhad Jahad Daneshgahi, (1991)*
2. *Production of PZT ceramic piezoelectric igniter, Organization of Scientific and Industrial Research of Iran, (1993)*
3. *Interior evolution of Physics Group in University of Birjand, Iran (2010)*

### **Award**

1. *The Second research place in the Seventh-Khwarizmi International Award (1991)*
2. *The Second place in the Quran national competition, Isfahan University (2011)*

**To Be Continue ...!?**