

# CURRICULUM VITAE

**Dr. Nathan Netzer**

**December, 2012**

ORT Braude College, Department of Physics and Optical Engineering,  
P.O. Box 78, Karmiel 2161002, Israel  
Telephone: +972-72-246-3652  
Email: [netzer@braude.ac.il](mailto:netzer@braude.ac.il)

## EDUCATION

- 1990       **Ph.D** Astrophysical Sciences. Department of Astrophysical Sciences,  
Princeton University, Princeton, NJ, USA  
Dissertation: "Interaction of Radiation with Outflows in Late-Type Stars"
- 1977       **M.Sc** Physics. Racah Institute of Physics, Hebrew University, Jerusalem.  
Dissertation: "Phase Transitions in High-Spin states of Heavy Nuclei".
- 1972       **B.Sc** Physics. Physics department, Technion - Israel institute of  
Technology, Israel.

## RESEARCH INTERESTS

- Stellar structure and evolution; stellar atmospheres; Physics of the interstellar medium.

## ACADEMIC APPOINTMENTS

- 2000--Present :       Ort Braude College, Karmiel, Israel, Senior Lecturer
- 1991 -2000:       Ort Braude College, Karmiel, Israel, Lecturer
- 2004 - 2009       Oranim, Haifa University, department of Mathematics and       Physics.  
Visiting Lecturer.
- The University of Rochester, Department of Physics and   2000 (Fall semester):  
                  Astronomy, Rochester, NY, USA, Visiting Associate Professor.

## TEACHING EXPERIENCE

### **ORT Braude College of Engineering:**

Physics 1, (Mechanics).

Physics 2 (Electricity and Magnetism)

Physics 3 (Waves, Theory of Relativity, elementary Quantum Theory)

Thermodynamics

## **The University of Rochester:**

Basic Astronomy

## **Haifa University:**

Introductory Nuclear Physics

Introductory astronomy

Topics in astrophysics

## **LIST OF PUBLICATIONS**

### **Refereed Papers**

1. Nathan Netzer and G. R. Knapp, 1987. ``OH Maser Shell Radii and Mass loss rates for OH/IR stars", *Astrophysical Journal* **323**, 734—748.
2. Nathan Netzer, 1989. ``The Velocity Gradient in the Circumstellar Envelope of VX-Sagittarii," *Astrophysical Journal* **342**, 1068—1074
3. Nathan Netzer and Moshe Elitzur, 1993. ``The Dynamics of Stellar Outflows Dominated by Interaction of Dust and Radiation," *Astrophysical Journal* **410**, 701—713
4. Nathan Netzer, 1994. ``The Gradual Acceleration of the Envelope of VX-Sagittarii: a stellar Evolutionary effect?" *Space Science Rev* , **66**, 225—230
5. Nathan Netzer, 1995. ``Radiation Pressure on Dust in Stellar Outflows.", *Annals of the Israel Physical Society*, **11**, 94—97
6. Emil Bashkansky and Nathan Netzer, 2006. `` The Role of Mediation in collisions and Related Analogs", *American Journal of Physics*, **74**, 1083—1087
7. Nathan Netzer, 2007. ``Dynamics of Stellar Outflows", *Baltic Astronomy*, 16, 120—122
8. Nathan Netzer, 2010 ``The Role of Emission lines in Quasi Stellar Objects", a review paper, in press.
9. Nathan Netzer, 2012. ``Interaction of Gas Dust and Radiation in Stars of Variable Mass Loss Rates", paper in preparation.

### **Conference Proceedings and Abstracts**

1. Evolution and Chemistry of Symbiotic Stars, Wierzba, Poland—August 2006. ``Dynamics of Stellar Outflows".
2. American Association of Physics Teachers, Arlington, Virginia USA—November 2003. ``Using Differential Equations in Basic Courses in Physics"