

CURRICULUM VITAE

Dr. Ofer Eyal ד"ר עפר אייל

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ORT Braude College, Department of Physics and Optical Engineering,
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EDUCATION

Ph.D. 1988, Physics, The Technion – Israel Institute of Technology, Haifa, Israel

M.Sc. 1983, Physics, The Technion – Israel Institute of Technology, Haifa, Israel

B.Sc. 1979, Physics, The Technion – Israel Institute of Technology, Haifa, Israel

RESEARCH INTERESTS

- Supesymmetric field theories,
- Supesymmetric quantum mechanics as related to paraxial optics
- Foundation of quantum mechanics

ACADEMIC APPOINTMENTS

1995 – present: Lecturer, ORT Braude College, Department of Software Engineering

2001 - 2010: Technion - Israel Institute of Technology, Israel, Faculty of Physics, Adjunct Senior Teaching Fellow.

1993-1998 : Adjunct Lecturer Haifa University General studies

1990-2001: Lecturer and supervising students in the Open University

1988-1990 : Institute for Theoretical Physics, Karlsruhe, Germany (Post doctorate position)

TEACHING EXPERIENCE

The Ort Braude College:

Undergraduate Courses:

Undergraduate courses: Phys 1,2, 1'm, 2'm,3'm

Electromagnetic fields , quantum computation

The Technion–Israel Institute of Technology

Undergraduate Courses:

Electromagnetic Theory , Phys 1.m Phys. 2.mm

University of Haifa:

Undergraduate Course:

Symmetries in Nature

LIST OF PUBLICATIONS

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A. Refereed Papers:

1. O.Eyal, M.Moshe: Flat directions and scale invariance breaking in an $O(N) \times O(N)$ supersymmetric model, *Phys.Lett.B11* 397 (1986).
2. O.Eyal , How to regularize constrained systems: some simple examples, *Int.Journal of Mod.Physics A1* 3003 (1990)
3. O.Eyal , A spinning particle in magnetic field and the super harmonic oscillator, *Journal of Physics A:Math and Gen.11* 1453 (1990)
4. O.Eyal , An alternative description of finite states systems, *Journal of Physics A:Math and Gen.11* 1841 (1990)

• Conference Proceedings and Abstracts

1. O. Eyal and M. Moshe Flat Direction and Spontaneous Breaking of SuperSymmetric $O(N) \times O(N)$ Models *Contributed to 23rd International Conference on High-Energy Physics held in Berkeley, CA, 16-23 July 1986.*
2. O.Eyal, Variational Methods in Large N SuperSymmetric Models , *Proceeding of Wangerooge “Variational Calculations in Quantum Field Theories 1987* 157-171,

• Other publications

Eli Raz and Ofer Eyal, “The 12th Final Stage of the National Physics Olympiad” *Tehuda* 23/2 25-34 (2003). (in Hebrew).