

Curriculum Vitae

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POSTSECONDARY EDUCATION:

Peoples' Friendship University, Moscow, Russia (1975-1981).
Master of Science in Physics

Peoples' Friendship University, Moscow, Russia (1975-1981).
Master of Arts in English Translation (relating to Physics)

Peoples' Friendship University, Moscow, Russia (1984-1987).
PhD degree in Physics

PROFESSIONAL EXPERIENCE:

Adjunct Instructor

08/08-Present

- Teach undergraduate Physics
- Grade students' lab reports

DCCCD
Dallas, TX

Teacher Assistant

1/99-6/00

- Taught undergraduate Physics and Astronomy
- Graded students' lab reports using Excel, Emacs

SMU
Dallas, TX

Researcher in Physics

11/98-1/99

- Performed analytical and numerical calculations in high energy physics using computer languages Fortran, Latex (analysis of some differential equations)

Siegen University
Siegen, Germany

Researcher in Physics

02/92-10/98

- Performed analytical and numerical calculations in nonlinear field theory using computer languages Fortran, Latex (generating complicated programs of numerical calculations and applying those programs to achieve necessary for the experiment precision)

Joint Institute for Nuclear Research
Dubna, Russia

Teacher in Physics

1981-2000

- Taught General and Theoretical Physics
- Graded students' lab works

State Pedagogical Institute
Glukhow, Ukraine

PUBLICATIONS IN THEORETICAL PHYSICS :

1. E. N. Magar. *Soliton solutions in the Kadyshevsky model*. Proceedings of VIII Conf. of Young Scientists of Peoples Friendship University, M., 19-23 February, 1985/ PFU, M., 1985 P.I, p.112-115. Deposited in VINITI May 29 1985. N3713-Dep 85 (in Russian).
2. E. N. Magar. *On matrix structure of motion equation in the Kadyshevsky model*. Proceedings of IX Conf. of Young Scientists of Peoples Friendship University, M., 15-19 April, 1986/PFU, M., 1986. P.I, p.230-232. Deposited in VINITI September 25 1986. N6848-B (in Russian).
3. E. N. Magar. *Approximation of soliton solutions of the Kadyshevsky model for heavy particles*. Proceedings of VIII Conf. of Young Scientists of Peoples Friendship University, M., 13-19 April, 1987/ PFU, M., 1987. P.I, p.45-48. Deposited in VINITI December 29 1987. N9151-B (in Russian).
4. E. N. Magar. *On the structure of soliton solutions of the Kadyshevsky model*. "Problems of Statistical Physics and Field Theory". M., Publishing Office of PFU, 1987, p.83-85 (in Russian).
5. E. N. Magar. *Equations of the Kadyshevsky model in approximation of heavy particles*. "Urgent Problems of Quantum Mechanics and Statistics Physics". M., Publishing Office of PFU, 1988, p.82-84 (in Russian).
6. E. N. Magar, Yu. P. Rybakov. *Heavy solitons in generalized spinor electrodynamics*. "Izvestia Vuzov. Physics". 1989, **32**, N10, p.97-100 (in Russian).
7. V. M. Dubovik, E. N. Magar. *Representations of vector field by scalar potentials and their inversions*. In special issue of Peoples Friendship University "Debatle Questions of Quantum Physics", in memory of V.V.Kuryshkin, M., 1993, p. 126-132. (in Russian).
8. V. M. Dubovik, E. N. Magar. *Inversion formulas for the decompositions of vector fields*. In special issue "Programming and Mathematical Technics in Physics", World Scientific, Singapore, 1994, p. 229-233.

9. V. M. Dubovik, E. N. Magar. *Inversion formulas for the decompositions of vector fields and theory of continuous media*. J. Mosc. Phys. Soc., 1994, **3**, N4, p. 1-9.
10. V. M. Dubovik, E. N. Magar. *Decompositions of Vector Fields and Spacial and/or Dynamical Symmetry Problems*. "Proceedings of the International Workshop on Symmetry Methods in Physics in Memory of Prof. Ya. A. Smorodinsky", Dubna, July, 1994, v.1, p. 95-100.
11. E. N. Magar. Finding of Soliton Solutions in Dipole Chains Model with the Help of Continuous Analog of Newton's Method. Communication of the JINR, Dubna, 1997, P17-97-33.
12. E. N. Magar, V. A. Nikolaev, V. Yu. Novozhilov, O. G. Tkachev. *Proton and Neutron Charge Form Factors in Soliton Model with Dilaton-Quarkonium Fields*. JINR Rapid Communications No.5[85]-97, p. 11-20.
13. A. B. Arbuzov, O. Krehl, E. A. Kuraev, E. N. Magar, B. G. Shaikhatdenov. *Radiative corrections to the background of $\mu \rightarrow e \gamma$ decay*. Physics Letters B, 1998, **432**, p. 421-426.
14. G. N. Afanasiev, V. G. Kartavenko, E. N. Magar. *Vavilov-Cherenkov radiation in dispersive medium*. Preprint JINR, 1998, E2-98-98, **31** p. Physica B, 1999, **269**, p. 95-113.
15. K. E. Lassila, E. N. Magar, V. A. Nikolaev, V. Yu. Novozhilov, O. G. Tkachev. *Proton and Neutron Charge Form Factors in Soliton Model with Dilaton-Quarkonium Field*. XV International Seminar on High Energy Physics Problems, E1, 2-2000-212, p. 21.

Pedagogical Publications

1. E. N. Magar. *Pedagogical recommendations for practical lessons in the course "General Physics"*. Part I. "Mechanics. Molecular Physics", Glukhow, 1991, 24 p. (in Ukrainian).
2. E. N. Magar. *Pedagogical recommendations for practical lessons in the course "General Physics"* P.II. "Electricity and Magnetism", Glukhow, 1994, 24 p. (in Ukrainian).
3. E. N. Magar. *Pedagogical recommendations for practical lessons in the course "General Physics"*. Part III. "Optics. Physics of Microparticles", Glukhow, 1994, 24 p. (in Ukrainian).