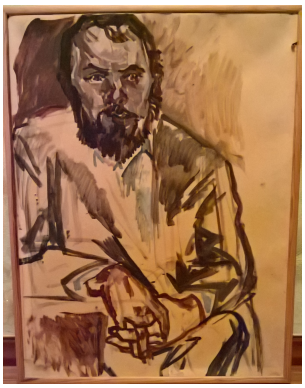
Curriculum Vitae

Evgeni A. SOLOV'EV



ADDRESS

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ACADEMIC DEGREES

1987 D. Sc., Leningrad State University, Leningrad (now St. Petersburg), USSR
Title: "Substantially Multilevels Problems of Atomic Physics in Adiabatic Approximation"

1977 Ph. D., Leningrad State University, Leningrad (now St. Petersburg), USSR
Title: "Solvable Models in Atomic Physics"

FIELDS OF SPECIALIZATION

Classical and Semiclassical Approaches in Atomic Physics, Adiabatic Theory of Atomic Collisions, Foundations of Quantum Physics

EDUCATION

1966–1971: Graduate studies at the Department of Quantum Mechanics, Leningrad State University

1964–1966: Studies at the Physics and Mathematics High School ("45-i Internat", now Academic Gymnasium) attached to Leningrad State University

POSITIONS HELD

- Leading Researcher, Sector at the Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Moscow region, Russia, since Jul. 2006
- Scientific Adviser at Macedonin Academy of Science and Arts, Skopje, Macedonia, Jul. 1994–Feb. 2008
- Full Professor at Ss.Cyril and Methodius University, Skopje, Macedonia, Oct. 1992–Jul. 1994
- Junior – Leading Researcher at the Department of Theoretical Physics, St. Petersburg State University, St. Petersburg, Russia, 1971–1992

VISITING PROFESSOR

- Mercator Professor at the Institute of Physics, Albert-Ludwigs-Universität, Freiburg, Germany, Sep. 2004–Jul. 2005
- Visiting Professor at the Institute for Molecular Science, Okazaki, Japan, Sep. 2002–Jul. 2003
- Visiting Professor at the Institute of Physics, Albert-Ludwigs-Universität, Freiburg, Germany, Sep. 1999–Aug. 2000

Citation Index (http://expertcorps.ru/science/whoiswho/by_aff/17068): 2067

За последние 5 лет опубликовано 9 статей в ведущих зарубежных журналах и одна монография -

Е.А. Соловьёв. **Новые подходы в квантовой физике.** Физматлит, 2019

Все статьи посвящены разным фундаментальным проблемам квантовой физике:

а) развитие нового классического представления в квантовой физике (статьи 2, 3, 4)

б) динамический подход к p + $He^+(1s)$ столкновениям и frozen-planet резонансам (статьи 1, 5, 6)

в) эффект полного отражения на тонких плёнках и, в частности, на графенах (статья 7)

г) программа ARSENY для расчёта неупругих переходов в атомных столкновениях (статья 8)

д) туннельная ионизация на бомовских траекториях (статья 9)

1. *Hidden crossing theory of charge exchange in H+ + He+(1s) collisions in vicinity of maximum of cross section.* T.P. Grozdanov and E.A. Solov'ev, Eur.Phys.J. D, 72:64, 2018

2. *Solvable problems in classical representation.* E.A. Solov'ev, Quant.Stud.: Math.Found., 6, 161, 2019

3. *Classical representation for hydrogen atom in s-states.*T.P. Grozdanov and E.A. Solov'ev, Quant.Stud.:Math.Found, 6, 225, 2019

4. *Semiclassical approach in classical representation.* E.A.Solov'ev, Quant.Stud.: Math. Found, 7, 1, 2020

5. *Hidden-crossing explanation of frozen-planet resonances in antiprotonic helium; their positions and widths.* T.P.Grozdanov and E.A.Solov'ev, Eur.Phys.J. D, 74:50, 2020

6. *Frozen-planet resonances in doubly excited helium atom; adiabatic approach.* T.P. Grozdanov, A.A. Gusev, E.A. Solov'ev and S.I. Vinitsky, Eur.Phys.J. D, 74:161, 2020

7. *3D scattering by 2D periodic zero-range potentials: total reflection/transmissionand threshold effects*. T.P. Grozdanov and E.A.Solov'ev, Eur.Phys.J. B, 95:16, 2022

8. *ARSENY: A program for computing inelastic transitions via hidden crossings in one-electron atomic ion ion collisions with classical description of nuclear motion.* A.A. Gusev, E.A.Solov'ev, S.I. Vinitsky, Comp.Phys.Com., 286, 108662, 2023

9. *Bohmian tunneling times in strong field ionization.* T.P.Grozdanov and E.A.Solov'ev, Eur.Phys.J. D, 77:45, 2023