

CURRICULUM VITAE

Sabirov Karimjon

Date and place of birth: September 7, 1980, Tashkent, Uzbekistan.

Nationality: Uzbekistan.

Education:

1998-2004 National University of Uzbekistan, Department of Mathematics, undergraduate (Bachelor + Master) student

2007-2009 PhD student at the Heat Physics Department of the Uzbek Academy of Sciences.

Career/Employment:

2010 – present Researcher associate at National University of Uzbekistan, Department of Mathematics.

Teaching activities:

2004-2005 Lecturer at Tashkent State Technical University

2006 Lecturer Tashkent State Pharmaceutical Institute

2010 – present Research associate at Maths. Department, National University of Uzbekistan

2011-present Lecturer at Turin Polytechnic University in Tashkent.

Affiliation:

Turin Polytechnic University in Tashkent.

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Research Interests:

Mathematical Physics

- i) Inverse spectral and scattering problems for Schrodinger equation;
- ii) Inverse spectral and scattering problems for Dirac equation;
- iii) Inverse spectral and scattering problems for Klein-Gordon equation.

Partial Differential Equations

- i) Nonlinear Schrodinger, KdV and sinus Gordon equations on graphs and their applications to the problem of soliton transport in networks;
- ii) Partial differential equation with time-dependent boundary conditions;
- iii) Dirac equation on graphs.

Languag skills:

Uzbek, Russian, English

List of selected publications:

1. Z. Sobirov, K. Sabirov, D. Matrasulov, *Stationary nonlinear Schrodinger equation on simple graphs: Boundary conditions and exact solutions*. **E-print:** [arXiv:1107.1220](https://arxiv.org/abs/1107.1220)
2. Z. Sobirov, D. Matrasulov, K. Sabirov, S. Sawada, and K. Nakamura, *Integrable nonlinear Schrödinger equation on simple networks: Connection formula at vertices*, **Physical Review E**, Vol **81**, 066602 (2010).
3. D.U.Matrasulov, Z.A.Sobirov, K.K.Sabirov *Inverse spectral problem for atom like mesons*, **Modern Physics Letters A**, Vol. **23** , 1913, (2008)
4. Z. Sobirov, K. Sabirov *Nonlinear Schrodinger equation on networks*, **Uzbek Journal of Physics** Vol. **10**, 311, (2008).
5. Z. Sobirov, K. Sabirov, J. Eshonkulov, *Stationary nonlinear Schrodinger equation on star graphs*, **Uzbek Journal of Physics**, Vol. **12**, No. 3 (2010).