

## **Publications:**

1. B. Haider and M. Hassan, On algebraic structures in supersymmetric principal chiral model, Eur.Phys.J.C53 (2008) 627-633.
2. B. Haider and M. Hassan, The U(N) chiral model and exact multi-solitons, J. Phys. A Math. Theor 41 (2008) 255202.
3. B. Haider and M. Hassan, Quasideterminant solutions of an integrable chiral model in two dimensions, J. Phys. A: Math. Theor. 42 (2009) 355211.
4. B. Haider and M. Hassan, Quasideterminant multisoliton solutions of a supersymmetric chiral field model in two dimensions, J. Phys. A: Math. Theor. 43 (2010) 035204.
5. B. Haider,M. Hassan and U. Saleem, Binary Darboux transformation and quasideterminant solutions of the chiral field, JNMP 18 (2011) 299.
6. B. Haider and M. Hassan, Binary Darboux transformation for the supersymmetric principal chiral field model, JNMP 18 (2011) 557.
7. B. Haider and M. Hassan, Grammian quasi-determinant solutions of the generalized coupled dispersionless integrable system, Symmetry, Integrability and Geometry: Methods and Applications 8 (2012) 084
8. A. Mirza and B. Haider, The Rational Solution of supersymmetric KdV equation, AIP conference proceeding Vol. 1862 pg. 030008
9. Z. Amjad and B. Haider, *Darboux transformations of supersymmetric Heisenberg magnet model*, J. Phys. Commun. 2 (2018).
10. **Z. Amjad and B. Haider**, *Binary Darboux transformations of supersymmetric Heisenberg magnet model*, Theor. and Math. Phys. 199 (3): 784–797 (2019).
11. **Z. Amjad and B. Haider**, *Quasi-Grammian solutions of generalized Heisenberg magnet model*, candn. Jour. Phys. 93(3): 303-311 (2020).
12. **Z. Amjad and B. Haider**, *Binary Darboux transformation of time-discrete lattice Heisenberg magnet model*, Chaos, Solitons & Fractals, 130 (2020).
13. **Z. Amjad and B. Haider**, *Multisolitons of U(N) generalized Heisenberg magnet model and Yang Baxter relation* Theor. and Math. Phys, 205 1426-1438 (2020).
14. **Z. Amjad and B. Haider**, *Solitons and quasi-Grammians of generalized lattice Heisenberg magnet model*, Communication. Theor. Phys. 75 085004 (2023).
15. **Z. Amjad and B. Haider**, *Integrable discretization and multi-soliton solutions of negative order AKNS equation*, accepted for publication in Qualitative Theory of Dynamical Systems (2024) (email attached)