

# Schroedinger Sigma Models and Jordanian Twists

*Wednesday 28 August 2013 16:00 (1 hour)*

We consider the classical integrable structure of two-dimensional non-linear sigma models defined on 3D Schrodinger spacetime (called the Schrodinger sigma models). The global symmetry is  $SL(2)_L \times U(1)_R$ . The  $SL(2)_L$  symmetry is enhanced to the Yangian  $Y(\mathfrak{sl}(2))$ . We show that the  $U(1)_R$  symmetry is enhanced to a Jordanian twisted Yangian. Finally I will discuss the Landau-Lifshitz limit if I have time.

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