



Contribution ID: 32

Type: **Talk**

Q-functions and classical affine Toda Field Theories

Tuesday, 16 September 2014 10:00 (30 minutes)

We discuss a connection between classical (1+1)-dimensional $A_n^{(1)}$ affine Toda field theories (ATFTs) and Bethe Ansatz systems. We show that the connection coefficients for specific solutions of the associated linear problem for the classical ATFTs satisfy certain functional relations. This way we enlarge the so-called ODE/IM correspondence.

Based on: P. Adamopoulou, C. Dunning 2014 Bethe Ansatz equations for the classical $A_n^{(1)}$ affine Toda field theories, *J. Phys. A: Math. Theor.* 47 205205

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Session Classification: Tuesday morning