

The extended Ablowitz-Ladik hierarchy and a generalized Frobenius manifold

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We define a certain extension of the Ablowitz-Ladik hierarchy, and show that it possesses a tau structure and Virasoro symmetries. We prove that this integrable hierarchy coincides with the topological deformation of the Principal Hierarchy of a generalized Frobenius manifold with non-flat unity.

Presenter: Prof. ZHANG, Youjin