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Mathematical Physics

Schrödinger equations, deformation theory and tt^*-geometry

Huijun Fan

(Submitted on 7 Jul 2011)

This is the first of a series of papers to construct the deformation theory of the form Schr\"odinger equation, which is related to a section-bundle system (M,g,f), where (M,g) is a noncompact complete K\"ahler manifold with bounded geometry and f is a holomorphic function defined on M.
This work is also the first step attempting to understand the whole Landau-Ginzburg B-model including the higher genus invariants. Our work is mainly based on the pioneer work of Cecotti, Cecotti and Vafa \cite{Ce1,Ce2,CV}.

Comments:	Deformation theory, Landau-Ginzburg B model, 114 pages
Subjects:	**Mathematical Physics (math-ph)**; Differential Geometry (math.DG)
MSC classes:	`81T45(primary), 53D45, 53D37(secondary)`
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