A 2D gravity 'facet' of a BF theory in the presence of some massless real scalar fields

The analysis of consistent interactions that can be introduced between a collection of BF models and a system of massless scalar fields, done in the context of antifield-antibracket symmetry by deformation to the solution to the classical master equation, exhibits two geometric structures related to the target manifold of the BF scalar fields: i) a Poisson one, due exclusively to BF sector and ii) a non-symmetric 2-tensor valued on the real scalar fields superspace manifold.

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