

Institut Ruđer Bošković  
ZAVOD ZA TEORIJSKU FIZIKU  
Bijenička c. 54  
ZAGREB, HRVATSKA

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SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

(Zajednički seminari Zavoda za teorijsku fiziku,  
Zavoda za eksperimentalnu fiziku IRB-a i Fizičkog odsjeka PMF-a)

**Sigma models from Courant algebroids and background  
fluxes of string theory**

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**Abstract:**

We present a membrane sigma model constructed from the Courant algebroid data that could provide a consistent world-sheet approach to realizing new geometries appearing in string theory. We show that at the level of the world-sheet sigma model action one is naturally lead to an apparent doubling of degrees of freedom by careful analysis of equation of motion. Furthermore, the bulk/boundary consistency condition provides a well-defined procedure for obtaining the 2D reduced theory with background fluxes. We discuss some of the results from the perspective of gauged sigma model.

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