

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

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SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

## Complex structures and zero-curvature equations for sigma-models

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Datum: srijeda, 25. travnja 2018.

Vrijeme : **14 sati c.t.**

Mjesto: IRB, predavaona I krila

### **Abstract:**

I will construct zero-curvature representations for the equations of motion of a class of sigma-models with complex homogeneous target spaces, not necessarily symmetric. I will elaborate various aspects of this theory, such as: finding explicit solutions to the equations of motion, relation to sigma-models with  $Z_m$ -graded target spaces and eta-deformed models, gauged linear formulations.

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