

Institut Ruđer Bošković  
ZAVOD ZA TEORIJSKU FIZIKU  
Bijenička c. 54  
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SEMINAR ZAVODA ZA TEORIJSKU FIZIKU  
(Zajednički seminari Zavoda za teorijsku fiziku,  
Zavoda za eksperimentalnu fiziku i Zavoda za teorijsku fiziku PMF-a)

## Bosonic string and superstring models in 26+2 and 10+2 dimensional spacetime

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### Abstract:

We investigate a formulation for string theory in higher-dimensional spacetime. Bosonic string and superstring models which are invariant under new gauge transformations on the string world-sheets are introduced and analyzed. Upon quantizations, the models turn out to be formulated consistently in 26+2 and 10+2 spacetime involving two time dimensions. We propose these string models as devices to search for a fundamental theory which would be linked via dualities to M-theory and F-theory from higher-dimensional point of view.

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