

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 i Zavoda za teorijsku fiziku PMF-a)

## Integrable Systems Towards Noncommutative Space

**Irfan Mahmood**  
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*Datum: ponedjeljak, 28. studeni 2011.*  
*Vrijeme : 11:00 sati c.t.*  
*Mjesto: IRB, predavaona I krila*

### Abstract:

We will outline the mathematical formalism of integrable systems on commutative and non-commutative spaces. Then we will focus on noncommutative Painlevé second equation, its symmetric functions and Lax representation, Darboux transformations and quasideterminant representation of its multi-soliton solutions.

Voditelj seminara: Dr. Goran Duplanić  
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*[http : //thphys.irb.hr/Seminar/list.htm](http://thphys.irb.hr/Seminar/list.htm)*