

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)

## Poisson source and basic constructions of Braided Geometry

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*Mjesto: IRB, dvorana I krila*

### Sažetak:

Braided Geometry is a sort of Geometry related to a braiding, i.e. a solution of the Quantum Yang-Baxter Equation. All objects and operators of this theory (Lie algebras, varieties, traces) are "braided". Typical examples of such a Geometry are those related to the Quantum Groups  $U_q(sl(n))$  (or their super-analogs). In my talk I plan to describe these examples in details, to explain the role played in this construction by the Reflection Equation Algebra, and to exhibit a way of getting corresponding objects via quantizing some Poisson structures defined on  $gl(n)^*$ .

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