



Contribution ID: 14

Type: **Talk**

## **Lattice path integrals for relativistic and non-relativistic many-body quantum systems**

*Thursday, 26 June 2014 15:55 (20 minutes)*

New formulation of path integrals for relativistic quantum systems will be discussed. Influence of the relativistic effects on the properties of quantum systems will be studied by means of the Monte Carlo method. A generalization of this approach to the case of the path integral quantization of the Born-Infeld field theory will also be discussed.

**Primary author:** Dr PAVLOVSKIY, Oleg (Moscow State University)

**Presenter:** Dr PAVLOVSKIY, Oleg (Moscow State University)

**Session Classification:** Application beyond QCD

**Track Classification:** Applications Beyond QCD