



UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

COLLOQUIUM

Dr. Steven Duplij
(Rutgers University & Kharkov National University)

“A new Hamiltonian formulation of singular theories based on the generalized duality and the Clairaut equation”

Abstract:

We show that any singular Lagrangian theory: 1) can be formulated without the use of constraints by introducing a Clairaut-type version of the Hamiltonian formalism; 2) leads to a special kind of nonabelian gauge theory; 3) coincides with the many-time classical dynamics.

Thursday, February 2nd, 2012

Surge 284

4:10-5:00pm

Tea Time at 3:40pm