

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

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School of Physical Sciences

Title:	Poisson Lie T duality and Integrability
Speaker:	Raju Roychowdhury, Instituto de Matemática e Computação, Universidade Federal de Itajubá and Institute of Physics, University of Sao Paulo, Brasil
Date:	February 13, 2020 (Thursday)
Time:	16:00 Hours
Venue:	Physics Seminar Room (C-406), 3rd Floor, Centenary Building, IACS
Abstract:	In this talk I will explain how Poisson-Lie T-duality helped us to solve an old problem in the theory of integrable models. We will see how one can deform a sigma model to give rise to what is known as epsilon-deformed principal chiral model or Yang-Baxter sigma model. The deformed model is Poisson-Lie symmetric and still integrable with respect to the same Lax pair as that of the original model and have the same system of equations describing their dynamics. This is due to the fact that the deformed target of the string and the non-deformed target of the string can be expressed by the same 1st order dynamics. Finally if time permits I will discuss some new directions and open problems.

All are cordially invited to attend the seminar