Friday, September 29th (at 4.00pm, UK time)

Alexandre Odesskii (Brock University)
Title: Multiplication kernels.

ABSTRACT

We introduce the notion of multiplication kernels of birational and D-module type and give various examples. We also introduce the notion of a semi-classical multiplication kernel associated with an integrable system and discuss its quantization. Finally, we discuss geometric and algebraic aspects of method of separation of variables, and describe hypothetically a cyclic D-module for the generalized multiplication kernels for Hitchin systems for groups GL_r.

This is a joint paper with Maxim Kontsevich.