

Mathematical Physics Seminar at Boston University

Mon, Dec 04, 3:00pm

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Feynman diagrams and Lax pair equations

We construct a Lax pair equation corresponding to the Connes-Kreimer Birkhoff factorization of the character group of the Hopf algebra of Feynman diagrams. In particular, we obtain a flow for the character given by Feynman rules, and present a worked example. This is a joint work with Steven Rosenberg.

MCS 135

<http://math.bu.edu/research/mathphys/seminar.html>