

Mathematical Physics Seminar at Boston University

Thu, Sep 20, 3:30pm

Dirk Kreimer (IHES & BU)

Nonperturbative aspects of Quantum Field Theory

MCS 180

We discuss how to renormalize Green functions through a monodromy matrix N without expanding them into a perturbation in a small parameter. We follow inspiration from the study of the polylogarithm as a mixed Hodge structure. We then discuss consequences of this approach in field theory, with emphasis on soft breaking of conformal symmetry.

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