Tuesday, October 21, 2008
12:30 - 2:00 p.m.

Mathematical Physics Seminar

Room MCS180 in the Math Dept
111 Cummington Street

More on Dyson–Schwinger Equations

Dirk Kreimer
IHES and Boston U.

We review an approach to non-perturbative quantum field theory which avoids the introduction of a cut-off. Instead, we proceed by a systematic analysis of Hopf algebra primitives. This led to recent progress in quantum electrodynamics, joint with G. van Baalen, D. Uminsky and Karen Yeats. We will discuss applications to other renormalizable theories.

Tea at 12:15

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