

1031-81-22

Dirk Kreimer* (dkreimer@bu.edu), 35 rte de Chartres, Bures sur Yvette, France. *The role of periods in non-perturbative quantum field theory*. Preliminary report.

We discuss how periods enter perturbative approximations to quantum field theory, and the role they play in non-perturbative approaches. Emphasis will be given to equations of motions in field theory, and we compare the accompanying generating functions with generating functions for the polylog. (Received July 17, 2007)