

Contribution Title:	THE MATHEMATICAL STRUCTURE OF DYSON SCHWINGER EQUATIONS
Authors:	D. Kreimer
Presenting author:	Kreimer D.
Affiliation:	IHES
E-mail:	kreimer@ihes.fr
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YRS seminar:	NO

Dyson Schwinger equations are the equations of motion for a quantum field theory. We investigate their mathematical structure starting from the Hochschild cohomology of the Hopf algebra structure underlying a perturbative expansion. this largely restricts the possible form of perturbative solutions. We present results for QED, QCD and quantum gravity.