

MP 9: HV Quantenfeldtheorie

Time: Thursday 14:00–14:40

Location: SPA SR125

Invited Talk

MP 9.1 Thu 14:00 SPA SR125

Construction of quantum field theories by deformation techniques — •GANDALF LECHNER — Institut für Theoretische Physik, Universität Leipzig

This talk reviews recent approaches to constructing quantum field the-

ory models on Minkowski spacetime by operator-algebraic deformation techniques. The links of this topic to (deformation) quantization, constructive quantum field theory, models in conformal QFT, massive integrable models, and non-commutative geometry will be discussed. An overview of the known results as well as an outlook to open questions will be given.