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Title:  $C^*$ -algebraic formulation of interacting quantum field theory applied to fermions

Abstract: In a recent paper, Buchholz and Fredenhagen proposed a formulation of interaction quantum field theory in terms of a net of  $C^*$ -algebras generated by unitaries that are interpreted as local S-matrices. In a subsequent paper by Brunetti, Duetsch, Fredenhagen and myself, we have shown how this can be generalized to theories involving Fermions. In my talk, I will give a summary of these results.