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On the semigroup generated by the renormalized Nelson Hamiltonian

In this talk, I will report my recet results of the renormalized Nelson model at a fixed total momentum. Because the Hamiltonian is defined through an infinite energy renormalization, analysis of this model is known to be difficult. After a reveiw of ealier studies, I will briefly explain that the semigroup is the positivity improving in the Fock representation.