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Semiclassical analysis of quantum scattering in the Yukawa interaction

jeudi 28 mars 2024 08:45 (1 heure)

In this talk, I will consider the quantum scattering theory of a Yukawa particle field
model in the semi-classical regime. The transition and diffusion amplitudes of such a model will be linked to those of the Schrödinger–Klein–Gordon equation. The phase space properties of asymptotic vacuum states will be highlighted and the concentration around the radiation-free solutions of the SKG equation will be established. I will also discuss the uniqueness of SKG energy minimizers as well as some open questions related to asymptotic completeness. This is a joint work with Marco Falconi and Marco Olivieri.

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