

# Scattering Theory in Quantum Mechanical Problems

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**Abstract.** The aim of the lecture is to briefly describe the mathematical background of scattering theory for two- and three-particle quantum systems. We discuss basic objects of the theory: wave and scattering operators and the corresponding scattering matrix and illustrate them on the example of the Schrödinger equation. Our goal is to present time-dependent and stationary approaches and to describe the underlying mathematical methods. We also give a sketch of scattering theory for three interacting quantum particles including a difficult problem of the asymptotic completeness of scattering channels. Along with traditional results, we discuss new scattering channels arising for long-range pair interactions.

**Keywords:** wave operators, scattering matrix, scattering channels, asymptotic completeness

## 1 Scattering in two-particle systems

### 1.1 Time-dependent Schrödinger equation and wave operators

Mathematical scattering theory is concerned with the study of the behavior for large times of solutions of the time-dependent Schrödinger equation

$$i\partial_t u = H u, \quad u(0) = f \in \mathcal{H}, \quad (1)$$

for a quantum system with a self-adjoint Hamiltonian  $H$  acting in a Hilbert space  $\mathcal{H}$ . Being a part of the perturbation theory, scattering theory describes asymptotics of  $u(t)$  as  $t \rightarrow +\infty$  or  $t \rightarrow -\infty$  in terms of solutions of problem (1) with a “free” Hamiltonian  $H_0$ . Of course, equation (1) has a unique solution  $u(t) = \exp(-iHt)f$ , and the solution of the same equation with the operator  $H_0$  and the initial data  $u_0(0) = f_0$  is given by the formula  $u_0(t) = \exp(-iH_0 t)f_0$ . From the viewpoint of scattering theory the function  $u(t)$  has free asymptotics as  $t \rightarrow \pm\infty$  if for an appropriate initial data  $f_0^{(\pm)}$  the relation

$$\lim_{t \rightarrow \pm\infty} \|u(t) - u_0^{(\pm)}(t)\| = 0, \quad u_0^{(\pm)}(t) = \exp(-iH_0 t)f_0^{(\pm)}. \quad (2)$$

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