

Problem#9

Obtain the Schrödinger eigenvalue equation in coordinate space from the equation for the propagator analogous to the steps (399) to (404) for the case in momentum space.

Problem#10

Use Eq.(446) for the asymptotic propagator in a partial wave basis to obtain the phase shifts for a hard core potential with hard-core radius r_0 .

We will discuss problems 8, 9, and 10 during the meeting on Monday, October 2, at 3pm.