भारतीय प्रौद्योगिकी संस्थान पटना INDIAN INSTITUTE OF TECHNOLOGY PATNA



PH103 (Physics-I)

Tutorial-IX (November 8, 2018) [Quantum Mechanics]

- 1. Obtain the S-matrix for an attractive delta function potential $V(x) = -\alpha \delta(x)$.
- 2. Obtain the M-matrix for an attractive delta function potential $V(x) = -\alpha \delta(x)$.
- 3. Represent the M-matrix in terms of the S-matrix elements.