# 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.
