

REQUIREMENTS ON  $\psi$  TO BE A  
PROBABILITY AMPLITUDE :

- 1) MUST SATISFY SE RELAX FOR  $\infty$  WELL
- 2)  $\psi$  &  $\psi'$  MUST BE CONTINUOUS
- 3)  $\psi$  &  $\psi'$  MUST BE FINITE
- 4)  $\psi$  &  $\psi'$  MUST BE SINGLE VALUED
- 5)  $\psi \rightarrow 0$  AS  $x \rightarrow \pm\infty$  SO  $\int \psi^* \psi$  IS FINITE