E. Schrodinger Egn. - Wave mechanics psit W. Heisenberg QM - Malrix Mechanics 1927 Paul Dirac Unifies both! Operator Math Linear Egns

x position — position x(0), p2(0) $\Psi(x,t)$ $(x,t) = \frac{d}{dt} \Psi(x,t) (ih)$

Observation

Operator Math Operator) (operand) = function dx f(x) — shope of the dx (f(x) — Area bound by al b limits of f(x)

2 -> position

promentum

} 宛如 和 手即 $\left[\hat{x},\hat{p}\right]$ $\hat{\chi}.f \rightarrow \chi$ $\hat{p}_{\chi}f \rightarrow \beta$ (function) i

- Operator Eigenvalue-function Egn. Characteristic Zgng

Operator (HY=EY) (measure) result operators operators E T KE + ÎN PE

