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Wave function  $\Psi(r)$

$$|\Psi\rangle = \sum_{n=1}^N c_n |\hat{\Psi}_n\rangle$$

where  $|\Psi\rangle$  is called state vector (态矢)

$|\hat{\Psi}_n\rangle$  is basis vector

$|\Psi\rangle$  is a vector consist of eigenstate (本征/特征态)

$c_n$  can be rewritten as vector  $|c\rangle = \begin{bmatrix} c_1 \\ \vdots \\ c_n \end{bmatrix}$

In Dirac bracket  $|c\rangle = \begin{bmatrix} c_1 \\ \vdots \\ c_n \end{bmatrix}$  is called ket (右矢)

$\langle c| = [c_1^* \dots c_n^*]$  is called bra (左矢)