


Wave function $\Psi(r)$

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

where $|\Psi\rangle$ is called state vector (态矢)
 $|\Psi_n\rangle$ 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 $|c\rangle = \begin{bmatrix} c \\ \vdots \\ c_n \end{bmatrix}$ is called ket (右矢)

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