2. Dirac 反费米子 
$$\bar{\psi}$$
 入射外线:  $\bar{\psi}, \lambda \xrightarrow{p} = \bar{v}(\mathbf{p}, \lambda), \quad \bar{\psi}, \lambda \xrightarrow{p} = u(\mathbf{p}, \lambda).$ 
3. Dirac 正费米子  $\psi$  出射外线:  $\psi, \lambda = \bar{u}(\mathbf{p}, \lambda), \quad \psi, \lambda = v(\mathbf{p}, \lambda).$ 

1. Dirac 正费米子  $\psi$  入射外线:  $\psi, \lambda$  \_\_\_\_\_ =  $u(\mathbf{p}, \lambda), \quad \psi, \lambda$  \_\_\_\_\_ =  $\bar{v}(\mathbf{p}, \lambda).$ 

4. Dirac 反费米子 
$$\bar{\psi}$$
 出射外线:  $\psi, \lambda = v(\mathbf{p}, \lambda), \quad \psi, \lambda = \bar{u}(\mathbf{p}, \lambda).$ 
5. Majorana 费米子  $\chi$  入射外线:  $\chi, \lambda \longrightarrow u(\mathbf{p}, \lambda), \quad \chi, \lambda \longrightarrow u(\mathbf{p}, \lambda), \quad \chi, \lambda \longrightarrow u(\mathbf{p}, \lambda).$