

(a)

$m_{F'} =$
0 $|F = 0\rangle$

Ω_p

Ω_c

$m_F =$

-1

0

+1

$|F' = 1\rangle$

(b)

$|3\rangle$

Ω_p

Ω_c

$|1\rangle$

$|4\rangle$

$|2\rangle$

