(a)

$s_{1/2}$

2^+

$d_{5/2}$

$s_{1/2}$

$s_{1/2}$

$0^+(\nu)$

(b)

$d_{5/2}$

$d_{5/2}$

2^+

$s_{1/2}$

$s_{1/2}$

$0^+(\nu)$

(c)

2^+

$s_{1/2}$

$d_{5/2}$

$s_{1/2}$

$1/2^-$

2^+

$p_{3/2}(\pi)$

(d)

$d_{5/2}$

$s_{1/2}$

$|\widetilde{0^+(\nu)}\rangle$