

IVDW = 10	C3 at K	C3 at -K	C3 at $\Gamma$	Chern number
6084	$\pi/3$ ( $\uparrow$ )	$-\pi/3$ ( $\downarrow$ )	$\pi$ ( $\uparrow$ )	1 ( $\uparrow$ )
6083	$-\pi/3$ ( $\downarrow$ )	$\pi/3$ ( $\uparrow$ )	$\pi$ ( $\downarrow$ )	-1 ( $\downarrow$ )
6082	$\pi/3$ ( $\downarrow$ )	$-\pi/3$ ( $\uparrow$ )	$\pi$ ( $\downarrow$ )	-1 ( $\uparrow$ )
6081	$-\pi/3$ ( $\uparrow$ )	$\pi/3$ ( $\downarrow$ )	$\pi$ ( $\uparrow$ )	1 ( $\downarrow$ )
IVDW = 4	C3 at K	C3 at -K	C3 at $\Gamma$	Chern number
6084	$\pi/3$ ( $\uparrow$ )	$-\pi/3$ ( $\downarrow$ )	$\pi$ ( $\downarrow$ )	1 ( $\uparrow$ )
6083	$-\pi/3$ ( $\downarrow$ )	$\pi/3$ ( $\uparrow$ )	$\pi$ ( $\uparrow$ )	-1 ( $\downarrow$ )
6082	$\pi/3$ ( $\downarrow$ )	$-\pi/3$ ( $\uparrow$ )	$\pi/3$ ( $\uparrow$ )	1 ( $\uparrow$ )
6081	$-\pi/3$ ( $\uparrow$ )	$\pi/3$ ( $\downarrow$ )	$-\pi/3$ ( $\downarrow$ )	-1 ( $\downarrow$ )
6080	$-\pi/3$ ( $\downarrow$ )	$\pi/3$ ( $\uparrow$ )	$\pi$ ( $\uparrow$ )	-2 ( $\uparrow$ )
6079	$\pi/3$ ( $\uparrow$ )	$-\pi/3$ ( $\downarrow$ )	$\pi$ ( $\downarrow$ )	2 ( $\downarrow$ )