

Tables from Section 5
The case $A_1 = A_1[00]$ or $A_1 = A_1[11]$

Table 1: $Ext_{A(2)}^{s,t}(A_1 \wedge DA_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15	15 ₂	71	15	15 ₅	190	39	39 ₂	191	39	39 ₅
70	15	15 ₁	71	15	15 ₄	190	39	39 ₁	191	39	39 ₄
			71	15	15 ₃				191	39	39 ₃
70	14	14 ₂₅	71	14	14 ₂₉	190	38	38 ₂₅	191	38	38 ₂₈
70	14	14 ₂₄	71	14	14 ₂₈	190	38	38 ₂₄	191	38	38 ₂₇
70	14	14 ₂₃	71	14	14 ₂₇	190	38	38 ₂₃	191	38	38 ₂₆
70	14	14 ₂₂	71	14	14 ₂₆	190	38	38 ₂₂			
70	14	14 ₂₁				190	38	38 ₂₁			
70	13	13 ₄₆	71	13	13 ₅₃	190	37	37 ₄₂	191	37	37 ₄₇
70	13	13 ₄₅	71	13	13 ₅₂	190	37	37 ₄₁	191	37	37 ₄₆
70	13	13 ₄₄	71	13	13 ₅₁	190	37	37 ₄₀	191	37	37 ₄₅
70	13	13 ₄₃	71	13	13 ₅₀	190	37	37 ₃₉	191	37	37 ₄₄
70	13	13 ₄₂	71	13	13 ₄₉	190	37	37 ₃₈	191	37	37 ₄₃
			71	13	13 ₄₈						
			71	13	13 ₄₇						
						190	36	36 ₆₃	191	36	36 ₆₆
						190	36	36 ₆₂	191	36	36 ₆₅
						190	36	36 ₆₁	191	36	36 ₆₄

n	i_1, \dots, i_n	x	$g^6 x$	$v_2^{20} h_1 x$
0	0	15_5	39_5	36_{69}
0	0	15_4	39_4	36_{68}
0	0	15_3	39_3	36_{67}
0	0	15_2	39_2	36_{66}
0	0	15_1	39_1	36_{65}
0	0	14_{29}	0	0
0	0	14_{28}	38_{28}	35_{92}
0	0	14_{27}	38_{27}	35_{91}
0	0	14_{26}	38_{26}	35_{90}
0	0	14_{25}	38_{25}	35_{89}
0	0	14_{24}	38_{24}	35_{88}
0	0	14_{23}	38_{23}	35_{87}
0	0	14_{22}	38_{22}	35_{86}
0	0	14_{21}	38_{21}	35_{85}
0	0	13_{53}	0	0
0	0	13_{52}	0	0
0	0	13_{51}	37_{44}	34_{108}
0	0	13_{50}	37_{43}	34_{107}
0	0	13_{49}	$37_{43} + 37_{45}$	$34_{107} + 34_{109}$
0	0	13_{48}	$37_{45} + 37_{46} + 37_{47}$	$34_{109} + 34_{110} + 34_{111}$
0	0	13_{47}	$37_{43} + 37_{45} + 37_{46}$	$34_{107} + 34_{109} + 34_{110}$

Table 2: $Ext_{A(2)}^{s-1, t-8}(A_1 \wedge DA_1 \wedge bo_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13	12_{11}	71	13	12_{19}	190	37	36_{11}	191	37	36_{19}
70	13	12_{10}	71	13	12_{18}	190	37	36_{10}	191	37	36_{18}
70	13	12_9	71	13	12_{17}	190	37	36_9	191	37	36_{17}
70	13	12_8	71	13	12_{16}	190	37	36_8	191	37	36_{16}
70	13	12_7	71	13	12_{15}	190	37	36_7	191	37	36_{15}
70	13	12_6	71	13	12_{14}	190	37	36_6	191	37	36_{14}
			71	13	12_{13}				191	37	36_{13}
			71	13	12_{12}				191	37	36_{12}
70	12	11_{40}	71	12	11_{46}	190	36		191	36	35_{33}
70	12	11_{39}	71	12	11_{45}				191	36	35_{32}
70	12	11_{38}	71	12	11_{44}						
70	12	11_{37}	71	12	11_{43}						
70	12	11_{36}	71	12	11_{42}						
70	12	11_{35}	71	12	11_{41}						
70	12	11_{34}									

n	i_1, \dots, i_n	x	$g^6 x$	$v_2^{20} h_1 x$
1	1	12_{19}	36_{19}	33_{83}
1	1	12_{18}	36_{18}	33_{82}
1	1	12_{17}	36_{17}	$33_{79} + 33_{83}$
1	1	12_{16}	36_{16}	$33_{79} + 33_{81}$
1	1	12_{15}	36_{15}	33_{80}
1	1	12_{14}	36_{14}	$33_{78} + 33_{79} + 33_{81} + 33_{83}$
1	1	12_{13}	36_{13}	33_{77}
1	1	12_{12}	36_{12}	$33_{76} + 33_{83}$
1	1	11_{46}	0	0
1	1	11_{45}	0	0
1	1	11_{44}	0	0
1	1	11_{43}	35_{33}	32_{97}
1	1	11_{42}	35_{32}	32_{96}
1	1	11_{41}	0	0

Table 3: $Ext_{A(2)}^{s-1, t-16}(A_1 \wedge DA_1 \wedge bo_2)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13		71	13		190	37		191	37	
70	12		71	12		190	36		191	36	

Table 4: $Ext_{A(2)}^{s-2, t-16}(A_1 \wedge DA_1 \wedge bo_1 \wedge bo_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13		71	13		190	37		191	37	
70	12	10_5	71	12	10_{11}	190	36	34_5	191	36	34_{11}
70	12	10_4	71	12	10_{10}	190	36	34_4	191	36	34_{10}
70	12	10_3	71	12	10_9	190	36	34_3	191	36	34_9
70	12	10_2	71	12	10_8	190	36	34_2	191	36	34_8
			71	12	10_7				191	36	34_7
			71	12	10_6				191	36	34_6

n	i_1, \dots, i_n	x	$g^6 x$	$v_2^{20} h_1 x$
2	1, 1	10_{11}	34_{11}	31_{139}
2	1, 1	10_{10}	34_{10}	31_{138}
2	1, 1	10_9	34_9	31_{137}
2	1, 1	10_8	34_8	31_{136}
2	1, 1	10_7	34_7	31_{135}
2	1, 1	10_6	34_6	$31_{134} + 31_{137} + 31_{138}$

Table 5: $Ext_{A(2)}^{s,t}(A_1 \wedge DA_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
95	20	20 ₂	143	28	28 ₃₄	191	36	36 ₆₆
95	20	20 ₁	143	28	28 ₃₃	191	36	36 ₆₅
			143	28	28 ₃₂	191	36	36 ₆₄

x	$b_{3,0}^4 \cdot x$	$e_0 r \cdot x$	$b_{3,0}^8 \cdot x$	$wgr \cdot x$
28 ₃₄	36 ₆₆	0	N/A	N/A
28 ₃₃	36 ₆₅	0	N/A	N/A
28 ₃₂	36 ₆₄	38 ₂₅	N/A	N/A
20 ₂	28 ₃₄	N/A	36 ₆₆	39 ₂
20 ₁	28 ₃₃	N/A	36 ₆₅	39 ₁

The case $A_1 = A_1[01]$

Table 6: $Ext_{A(2)}^{s,t}(A_1 \wedge DA_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15	15_0	190	39		191	39	39_0
70	14	14_{18}	71	14	14_{20}	190	38	38_{18}	191	38	38_{19}
70	14	14_{17}	71	14	14_{19}	190	38	38_{17}			
70	14	14_{16}				190	38	38_{16}			
70	14	14_{15}				190	38	38_{15}			
70	13	13_{33}	71	13	13_{40}	190	37	37_{24}	191	37	37_{29}
70	13	13_{32}	71	13	13_{39}	190	37	37_{23}	191	37	37_{28}
70	13	13_{31}	71	13	13_{38}	190	37	37_{22}	191	37	37_{27}
70	13	13_{30}	71	13	13_{37}	190	37	37_{21}	191	37	37_{26}
70	13	13_{29}	71	13	13_{36}				191	37	37_{25}
			71	13	13_{35}						
			71	13	13_{34}						
70	12		71	12		190	36		191	36	

x	$g^6 x$	$v_2^{20} h_1 x$
15_0	39_0	36_{40}
14_{20}	0	0
14_{19}	38_{19}	35_{59}
14_{18}	38_{18}	35_{58}
14_{17}	38_{17}	$35_{57} + 35_{58}$
14_{16}	38_{16}	35_{56}
14_{15}	38_{15}	$35_{55} + 35_{58}$
13_{40}	0	0
13_{39}	0	0
13_{38}	37_{29}	34_{69}
13_{37}	37_{28}	34_{68}
13_{36}	37_{27}	$34_{67} + 34_{68}$
13_{35}	37_{26}	$34_{66} + 34_{67} + 34_{69}$
13_{34}	37_{25}	$34_{65} + 34_{66}$

Table 7: $Ext_{A(2)}^{s-1, t-8}(A_1 \wedge DA_1 \wedge bo_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13	12 ₉	71	13	12 ₁₇	190	37	36 ₉	191	37	36 ₁₇
70	13	12 ₈	71	13	12 ₁₆	190	37	36 ₈	191	37	36 ₁₆
70	13	12 ₇	71	13	12 ₁₅	190	37	36 ₇	191	37	36 ₁₅
70	13	12 ₆	71	13	12 ₁₄	190	37	36 ₆	191	37	36 ₁₄
70	13	12 ₅	71	13	12 ₁₃	190	37	36 ₅	191	37	36 ₁₃
70	13	12 ₄	71	13	12 ₁₂	190	37	36 ₄	191	37	36 ₁₂
			71	13	12 ₁₁				191	37	36 ₁₁
			71	13	12 ₁₀				191	37	36 ₁₀
70	12	11 ₃₆	71	12	11 ₄₂	190	36		191	36	
70	12	11 ₃₅	71	12	11 ₄₁						
70	12	11 ₃₄	71	12	11 ₄₀						
70	12	11 ₃₃	71	12	11 ₃₉						
70	12	11 ₃₂	71	12	11 ₃₈						
70	12	11 ₃₁	71	12	11 ₃₇						
70	12	11 ₃₀									

x	$g^6 x$	$v_2^{20} h_1 x$
12 ₁₇	36 ₁₇	33 ₇₃
12 ₁₆	36 ₁₆	33 ₇₂ + 33 ₇₃
12 ₁₅	36 ₁₅	33 ₇₁
12 ₁₄	36 ₁₄	33 ₇₀ + 33 ₇₁
12 ₁₃	36 ₁₃	33 ₆₉ + 33 ₇₁ + 33 ₇₂ + 33 ₇₃
12 ₁₂	36 ₁₂	33 ₆₈ + 33 ₆₉ + 33 ₇₁ + 33 ₇₂ + 33 ₇₃
12 ₁₁	36 ₁₁	33 ₆₇ + 33 ₆₈ + 33 ₆₉ + 33 ₇₂
12 ₁₀	36 ₁₀	33 ₆₆ + 33 ₇₂

Table 8: $Ext_{A(2)}^{s-1, t-16}(A_1 \wedge DA_1 \wedge bo_2)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13		71	13		190	37		191	37	
70	12		71	12		190	36		191	36	

Table 9: $Ext_{A(2)}^{s-2, t-16}(A_1 \wedge DA_1 \wedge bo_1 \wedge bo_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13		71	13		190	37		191	37	
70	12		71	12	10_1	190	36		191	36	34_1
			71	12	10_0				191	36	34_0

x	$g^6 x$	$v_2^{20} h_1 x$
10_1	34_1	31_{81}
10_0	34_0	31_{80}

The case $A_1 = A_1[10]$

Table 10: $Ext_{A(2)}^{s,t}(A_1 \wedge DA_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
			71	15	15 ₀				191	39	39 ₀
70	14	14 ₁₈	71	14	14 ₂₀	190	38	38 ₁₈	191	38	38 ₁₉
70	14	14 ₁₇	71	14	14 ₁₉	190	38	38 ₁₇			
70	14	14 ₁₆				190	38	38 ₁₆			
70	14	14 ₁₅				190	38	38 ₁₅			
70	13	13 ₃₄	71	13	13 ₄₁	190	37	37 ₂₄	191	37	37 ₂₉
70	13	13 ₃₃	71	13	13 ₄₀	190	37	37 ₂₃	191	37	37 ₂₈
70	13	13 ₃₂	71	13	13 ₃₉	190	37	37 ₂₂	191	37	37 ₂₇
70	13	13 ₃₁	71	13	13 ₃₈	190	37	37 ₂₁	191	37	37 ₂₆
70	13	13 ₃₀	71	13	13 ₃₇				191	37	37 ₂₅
			71	13	13 ₃₆						
			71	13	13 ₃₅						

x	g^6x	$v_2^{20}h_1x$
15 ₀	39 ₀	36 ₄₀
14 ₂₀	0	0
14 ₁₉	38 ₁₉	35 ₅₉
13 ₄₁	0	0
13 ₄₀	0	0
13 ₃₉	37 ₂₉	34 ₆₉
13 ₃₈	37 ₂₈	34 ₆₈
13 ₃₇	37 ₂₇	34 ₆₇
13 ₃₆	37 ₂₆	34 ₆₆
13 ₃₅	37 ₂₅	34 ₆₅

Table 11: $Ext_{A(2)}^{s-1, t-8}(A_1 \wedge DA_1 \wedge bo_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13	12_9	71	13	12_{17}	190	37	36_9	191	37	36_{17}
70	13	12_8	71	13	12_{16}	190	37	36_8	191	37	36_{16}
70	13	12_7	71	13	12_{15}	190	37	36_7	191	37	36_{15}
70	13	12_6	71	13	12_{14}	190	37	36_6	191	37	36_{14}
70	13	12_5	71	13	12_{13}	190	37	36_5	191	37	36_{13}
70	13	12_4	71	13	12_{12}	190	37	36_4	191	37	36_{12}
			71	13	12_{11}				191	37	36_{11}
			71	13	12_{10}				191	37	36_{10}
70	12	11_{39}	71	12	11_{45}	190	36		191	36	
70	12	11_{38}	71	12	11_{44}						
70	12	11_{37}	71	12	11_{43}						
70	12	11_{36}	71	12	11_{42}						
70	12	11_{35}	71	12	11_{41}						
70	12	11_{34}	71	12	11_{40}						
70	12	11_{33}									

x	$g^6 x$	$v_2^{20} h_1 x$
12_{17}	36_{17}	33_{73}
12_{16}	36_{16}	33_{72}
12_{15}	36_{15}	33_{71}
12_{14}	36_{14}	33_{70}
12_{13}	36_{13}	33_{69}
12_{12}	36_{12}	$33_{68} + 33_{73}$
12_{11}	36_{11}	$33_{67} + 33_{73}$
12_{10}	36_{10}	$33_{66} + 33_{71} + 33_{72}$

Table 12: $Ext_{A(2)}^{s-1, t-16}(A_1 \wedge DA_1 \wedge bo_2)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13		71	13		190	37		191	37	
70	12		71	12		190	36		191	36	

Table 13: $Ext_{A(2)}^{s-2, t-16}(A_1 \wedge DA_1 \wedge bo_1 \wedge bo_1)$

$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g	$t-s$	s	s_g
70	15		71	15		190	39		191	39	
70	14		71	14		190	38		191	38	
70	13		71	13		190	37		191	37	
70	12		71	12	10_1	190	36		191	36	34_1
			71	12	10_0				191	36	34_0

x	$g^6 x$	$v_2^{20} h_1 x$
10_1	34_1	31_{81}
10_0	34_0	31_{80}