```
> # Set the parameters and functions
c :='c':
d :='d':
u :='u':
A2 := (37440000 c - 161834400) u^8 + (353464800 c^2 - 12480000 d^3 - 1294675200 d) u^7
      + (1268473440 c^3 - 31200000 d^5 - 2418000 d^4 - 4705780824 d^2) u^6 + (27040000 c^7
      + 107719560 c^5 + 2675588499 c^4 - 79440400 d^6 - 9811537866 d^3) u^5 + (38110800 c^8
      + 3623298666 c^5 - 2080000 d^9 - 134505800 d^7 - 193587675 d^6 - 12302778060 d^4) u^4
      + (17631640 c^9 + 3636140160 c^6 - 54539419 d^8 - 586789818 d^7 - 8427142836 d^5) u^3
      + (9505080 c^9 + 2471900238 c^7 - 491379183 d^8 - 1650242448 d^6) u^2 + (586739205 c^8
      + 1360886958 c^7 - 195834600 d^9) u + 648166788 c^8 - 149179680 d^9 :
print(Output);
# find Sturm's sequence` `
 for j from 0 by 1 to 199 do
 c := 4001/1000 + j/200 · (4005/1000 - 4001/1000) :
 d := 4001/1000 + (j+1)/200 · (4005/1000 - 4001/1000) :
u :='u':
S := sturmseq(A2, u);
signnum := sturm(S, u, 0, 5272/1000);
 with(ArrayTools) :
 Slength := Size(S, 2);
X := Array(1 .. Slength);
Y := Array(1 .. Slength);

    for i from 1 to Slength do
  # Find sgn [s'A_{2,i}'(0)]
      u := 0;
      X[i] := signum(S[i]);
  # Find sgn [s'A_{2,i}'(5.272)]
      u := 5272/1000 :
      Y[i] := signum(S[i]);
   end do;
 # show the final results
  print(['a'[j],'a'[1 + j], sgn(s['A'[2, j]](0)), sgn(s['A'[2, j]](5.272))] = [evalf(c, 5), evalf(d, 5), X,
      Y]) ;
end do:
```

Output

$$\left[a_0, a_1, sgn\left(s_{A_{2,0}}(0)\right), sgn\left(s_{A_{2,0}}(5.272)\right)\right] = [4.0010, 4.0010, [1\ 1\ 1\ -1\ 1\ 1\ -1\ -1\ -1], [1\ -1\ -1\ 1\ 1\ 1\ -1\ -1\ -1]]$$

$$\left[a_1, a_2, sgn\left(s_{A_{2,1}}(0)\right), sgn\left(s_{A_{2,1}}(5.272)\right)\right] = [4.0010, 4.0010, [1\ 1\ 1\ -1\ 1\ 1\ -1\ -1\ -1], [1\ -1\ -1\ 1\ 1\ 1\ -1\ -1\ -1]]$$

$$\left[a_2, a_3, sgn\left(s_{A_{2,2}}(0)\right), sgn\left(s_{A_{2,2}}(5.272)\right)\right] = [4.0010, 4.0011, [1\ 1\ 1\ -1\ 1\ 1\ -1\ -1\ -1], [1\ -1\ -1\ 1\ 1\ 1\ -1\ -1\ -1]]$$

$$\left[a_3, a_4, sgn\left(s_{A_{2,3}}(0)\right), sgn\left(s_{A_{2,3}}(5.272)\right)\right] = [4.0011, 4.0011, [1\ 1\ 1\ -1\ 1\ 1\ -1\ -1\ -1], [1\ -1\ -1\ 1\ 1\ 1\ -1\ -1\ -1]]$$

$$\left[a_4, a_5, sgn\left(s_{A_{2,4}}(0)\right), sgn\left(s_{A_{2,4}}(5.272)\right)\right] = \left[4.0011, 4.0011, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_5, a_6, sgn\left(s_{A_{2,5}}(0)\right), sgn\left(s_{A_{2,5}}(5.272)\right)\right] = \left[4.0011, 4.0011, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_6, a_7, sgn\left(s_{A_{2,6}}(0)\right), sgn\left(s_{A_{2,6}}(5.272)\right)\right] = \left[4.0011, 4.0011, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_7, a_8, sgn\left(s_{A_{2,7}}(0)\right), sgn\left(s_{A_{2,7}}(5.272)\right)\right] = \left[4.0011, 4.0012, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_8, a_9, sgn\left(s_{A_{2,8}}(0)\right), sgn\left(s_{A_{2,8}}(5.272)\right)\right] = \left[4.0012, 4.0012, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_9, a_{10}, sgn\left(s_{A_{2,9}}(0)\right), sgn\left(s_{A_{2,9}}(5.272)\right)\right] = \left[4.0012, 4.0012, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{10}, a_{11}, sgn\left(s_{A_{2,10}}(0)\right), sgn\left(s_{A_{2,10}}(5.272)\right)\right] = \left[4.0012, 4.0012, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{11}, a_{12}, sgn\left(s_{A_{2,11}}(0)\right), sgn\left(s_{A_{2,11}}(5.272)\right)\right] = \left[4.0012, 4.0012, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{12}, a_{13}, sgn\left(s_{A_{2,12}}(0)\right), sgn\left(s_{A_{2,12}}(5.272)\right)\right] = \left[4.0012, 4.0013, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{13}, a_{14}, sgn\left(s_{A_{2,13}}(0)\right), sgn\left(s_{A_{2,13}}(5.272)\right)\right] = \left[4.0013, 4.0013, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{14}, a_{15}, sgn\left(s_{A_{2,14}}(0)\right), sgn\left(s_{A_{2,14}}(5.272)\right)\right] = \left[4.0013, 4.0013, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{15}, a_{16}, sgn\left(s_{A_{2,15}}(0)\right), sgn\left(s_{A_{2,15}}(5.272)\right)\right] = \left[4.0013, 4.0013, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{16}, a_{17}, sgn\left(s_{A_{2,16}}(0)\right), sgn\left(s_{A_{2,16}}(5.272)\right)\right] = \left[4.0013, 4.0013, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{17}, a_{18}, sgn\left(s_{A_{2,17}}(0)\right), sgn\left(s_{A_{2,17}}(5.272)\right)\right] = \left[4.0013, 4.0014, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{18}, a_{19}, sgn\left(s_{A_{2,18}}(0)\right), sgn\left(s_{A_{2,18}}(5.272)\right)\right] = \left[4.0014, 4.0014, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{19}, a_{20}, sgn\left(s_{A_{2,19}}(0)\right), sgn\left(s_{A_{2,19}}(5.272)\right)\right] = \left[4.0014, 4.0014, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{20}, a_{21}, sgn\left(s_{A_{2,20}}(0)\right), sgn\left(s_{A_{2,20}}(5.272)\right)\right] = \left[4.0014, 4.0014, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{21}, a_{22}, sgn\left(s_{A_{2,21}}(0)\right), sgn\left(s_{A_{2,21}}(5.272)\right)\right] = \left[4.0014, 4.0014, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{22}, a_{23}, sgn\left(s_{A_{2,22}}(0)\right), sgn\left(s_{A_{2,22}}(5.272)\right)\right] = \left[4.0014, 4.0015, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{23}, a_{24}, sgn\left(s_{A_{2,23}}(0)\right), sgn\left(s_{A_{2,23}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{24}, a_{25}, sgn\left(s_{A_{2,24}}(0)\right), sgn\left(s_{A_{2,24}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{25}, a_{26}, sgn\left(s_{A_{2,25}}(0)\right), sgn\left(s_{A_{2,25}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{26}, a_{27}, sgn\left(s_{A_{2,26}}(0)\right), sgn\left(s_{A_{2,26}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{27}, a_{28}, sgn\left(s_{A_{2,27}}(0)\right), sgn\left(s_{A_{2,27}}(5.272)\right)\right] = \left[4.0015, 4.0016, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{28}, a_{29}, sgn\left(s_{A_{2,28}}(0)\right), sgn\left(s_{A_{2,28}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{29}, a_{30}, sgn\left(s_{A_{2,29}}(0)\right), sgn\left(s_{A_{2,29}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{30}, a_{31}, sgn\left(s_{A_{2,30}}(0)\right), sgn\left(s_{A_{2,30}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{31}, a_{32}, sgn\left(s_{A_{2,31}}(0)\right), sgn\left(s_{A_{2,31}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{32}, a_{33}, sgn\left(s_{A_{2,32}}(0)\right), sgn\left(s_{A_{2,32}}(5.272)\right)\right] = \left[4.0016, 4.0017, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{33}, a_{34}, sgn\left(s_{A_{2,33}}(0)\right), sgn\left(s_{A_{2,33}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{34}, a_{35}, sgn\left(s_{A_{2,34}}(0)\right), sgn\left(s_{A_{2,34}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{35}, a_{36}, sgn\left(s_{A_{2,35}}(0)\right), sgn\left(s_{A_{2,35}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{36}, a_{37}, sgn\left(s_{A_{2,36}}(0)\right), sgn\left(s_{A_{2,36}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{37}, a_{38}, sgn\left(s_{A_{2,37}}(0)\right), sgn\left(s_{A_{2,37}}(5.272)\right)\right] = \left[4.0017, 4.0018, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{38}, a_{39}, sgn\left(s_{A_{2,38}}(0)\right), sgn\left(s_{A_{2,38}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{39}, a_{40}, sgn\left(s_{A_{2,39}}(0)\right), sgn\left(s_{A_{2,39}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{40}, a_{41}, sgn\left(s_{A_{2,40}}(0)\right), sgn\left(s_{A_{2,40}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{41}, a_{42}, sgn\left(s_{A_{2,41}}(0)\right), sgn\left(s_{A_{2,41}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{42}, a_{43}, sgn\left(s_{A_{2,42}}(0)\right), sgn\left(s_{A_{2,42}}(5.272)\right)\right] = \left[4.0018, 4.0019, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{43}, a_{44}, sgn\left(s_{A_{2,43}}(0)\right), sgn\left(s_{A_{2,43}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{44}, a_{45}, sgn\left(s_{A_{2,44}}(0)\right), sgn\left(s_{A_{2,44}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{45}, a_{46}, sgn\left(s_{A_{2,45}}(0)\right), sgn\left(s_{A_{2,45}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{46}, a_{47}, sgn\left(s_{A_{2,46}}(0)\right), sgn\left(s_{A_{2,46}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{47}, a_{48}, sgn\left(s_{A_{2,47}}(0)\right), sgn\left(s_{A_{2,47}}(5.272)\right)\right] = \left[4.0019, 4.0020, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{48}, a_{49}, sgn\left(s_{A_{2,48}}(0)\right), sgn\left(s_{A_{2,48}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{49}, a_{50}, sgn\left(s_{A_{2,49}}(0)\right), sgn\left(s_{A_{2,49}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{50}, a_{51}, sgn\left(s_{A_{2,50}}(0)\right), sgn\left(s_{A_{2,50}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{51}, a_{52}, sgn\left(s_{A_{2,51}}(0)\right), sgn\left(s_{A_{2,51}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{52}, a_{53}, sgn\left(s_{A_{2,52}}(0)\right), sgn\left(s_{A_{2,52}}(5.272)\right)\right] = \left[4.0020, 4.0021, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{53}, a_{54}, sgn\left(s_{A_{2,53}}(0)\right), sgn\left(s_{A_{2,53}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{54}, a_{55}, sgn\left(s_{A_{2,54}}(0)\right), sgn\left(s_{A_{2,54}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{55}, a_{56}, sgn\left(s_{A_{2,55}}(0)\right), sgn\left(s_{A_{2,55}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{56}, a_{57}, sgn\left(s_{A_{2,56}}(0)\right), sgn\left(s_{A_{2,56}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{57}, a_{58}, sgn\left(s_{A_{2,57}}(0)\right), sgn\left(s_{A_{2,57}}(5.272)\right)\right] = \left[4.0021, 4.0022, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{58}, a_{59}, sgn\left(s_{A_{2,58}}(0)\right), sgn\left(s_{A_{2,58}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{59}, a_{60}, sgn\left(s_{A_{2,59}}(0)\right), sgn\left(s_{A_{2,59}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{60}, a_{61}, sgn\left(s_{A_{2,60}}(0)\right), sgn\left(s_{A_{2,60}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{61}, a_{62}, sgn\left(s_{A_{2,61}}(0)\right), sgn\left(s_{A_{2,61}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{62}, a_{63}, sgn\left(s_{A_{2,62}}(0)\right), sgn\left(s_{A_{2,62}}(5.272)\right)\right] = \left[4.0022, 4.0023, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{63}, a_{64}, sgn\left(s_{A_{2,63}}(0)\right), sgn\left(s_{A_{2,63}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{64}, a_{65}, sgn\left(s_{A_{2,64}}(0)\right), sgn\left(s_{A_{2,64}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{65}, a_{66}, sgn\left(s_{A_{2,65}}(0)\right), sgn\left(s_{A_{2,65}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{66}, a_{67}, sgn\left(s_{A_{2,66}}(0)\right), sgn\left(s_{A_{2,66}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{67}, a_{68}, sgn\left(s_{A_{2,67}}(0)\right), sgn\left(s_{A_{2,67}}(5.272)\right)\right] = \left[4.0023, 4.0024, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{68}, a_{69}, sgn\left(s_{A_{2,68}}(0)\right), sgn\left(s_{A_{2,68}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{69}, a_{70}, sgn\left(s_{A_{2,69}}(0)\right), sgn\left(s_{A_{2,69}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{70}, a_{71}, sgn\left(s_{A_{2,70}}(0)\right), sgn\left(s_{A_{2,70}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{71}, a_{72}, sgn\left(s_{A_{2,71}}(0)\right), sgn\left(s_{A_{2,71}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{72}, a_{73}, sgn\left(s_{A_{2,72}}(0)\right), sgn\left(s_{A_{2,72}}(5.272)\right)\right] = \left[4.0024, 4.0025, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{73}, a_{74}, sgn\left(s_{A_{2,73}}(0)\right), sgn\left(s_{A_{2,73}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{74}, a_{75}, sgn\left(s_{A_{2,74}}(0)\right), sgn\left(s_{A_{2,74}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{75}, a_{76}, sgn\left(s_{A_{2,75}}(0)\right), sgn\left(s_{A_{2,75}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{76}, a_{77}, sgn\left(s_{A_{2,76}}(0)\right), sgn\left(s_{A_{2,76}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{77}, a_{78}, sgn\left(s_{A_{2,77}}(0)\right), sgn\left(s_{A_{2,77}}(5.272)\right)\right] = \left[4.0025, 4.0026, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{78}, a_{79}, sgn\left(s_{A_{2,78}}(0)\right), sgn\left(s_{A_{2,78}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{79}, a_{80}, sgn\left(s_{A_{2,79}}(0)\right), sgn\left(s_{A_{2,79}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{80}, a_{81}, sgn\left(s_{A_{2,80}}(0)\right), sgn\left(s_{A_{2,80}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{81}, a_{82}, sgn\left(s_{A_{2,81}}(0)\right), sgn\left(s_{A_{2,81}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{82}, a_{83}, sgn\left(s_{A_{2,82}}(0)\right), sgn\left(s_{A_{2,82}}(5.272)\right)\right] = \left[4.0026, 4.0027, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{83}, a_{84}, sgn\left(s_{A_{2,83}}(0)\right), sgn\left(s_{A_{2,83}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{84}, a_{85}, sgn\left(s_{A_{2,84}}(0)\right), sgn\left(s_{A_{2,84}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{85}, a_{86}, sgn\left(s_{A_{2,85}}(0)\right), sgn\left(s_{A_{2,85}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{86}, a_{87}, sgn\left(s_{A_{2,86}}(0)\right), sgn\left(s_{A_{2,86}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{87}, a_{88}, sgn\left(s_{A_{2,87}}(0)\right), sgn\left(s_{A_{2,87}}(5.272)\right)\right] = \left[4.0027, 4.0028, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{88}, a_{89}, sgn\left(s_{A_{2,88}}(0)\right), sgn\left(s_{A_{2,88}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{89}, a_{90}, sgn\left(s_{A_{2,89}}(0)\right), sgn\left(s_{A_{2,89}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{90}, a_{91}, sgn\left(s_{A_{2,90}}(0)\right), sgn\left(s_{A_{2,90}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{91}, a_{92}, sgn\left(s_{A_{2,91}}(0)\right), sgn\left(s_{A_{2,91}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{92}, a_{93}, sgn\left(s_{A_{2,92}}(0)\right), sgn\left(s_{A_{2,92}}(5.272)\right)\right] = \left[4.0028, 4.0029, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{93}, a_{94}, sgn\left(s_{A_{2,93}}(0)\right), sgn\left(s_{A_{2,93}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{94}, a_{95}, sgn\left(s_{A_{2,94}}(0)\right), sgn\left(s_{A_{2,94}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{95}, a_{96}, sgn\left(s_{A_{2,95}}(0)\right), sgn\left(s_{A_{2,95}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{96}, a_{97}, sgn\left(s_{A_{2,96}}(0)\right), sgn\left(s_{A_{2,96}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{97}, a_{98}, sgn\left(s_{A_{2,97}}(0)\right), sgn\left(s_{A_{2,97}}(5.272)\right)\right] = \left[4.0029, 4.0030, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{98}, a_{99}, sgn\left(s_{A_{2,98}}(0)\right), sgn\left(s_{A_{2,98}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{99}, a_{100}, sgn\left(s_{A_{2,99}}(0)\right), sgn\left(s_{A_{2,99}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{100}, a_{101}, sgn\left(s_{A_{2,100}}(0)\right), sgn\left(s_{A_{2,100}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{101}, a_{102}, sgn\left(s_{A_{2,101}}(0)\right), sgn\left(s_{A_{2,101}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{102}, a_{103}, sgn\left(s_{A_{2,102}}(0)\right), sgn\left(s_{A_{2,102}}(5.272)\right)\right] = \left[4.0030, 4.0031, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{103}, a_{104}, sgn\left(s_{A_{2,103}}(0)\right), sgn\left(s_{A_{2,103}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{104}, a_{105}, sgn\left(s_{A_{2,104}}(0)\right), sgn\left(s_{A_{2,104}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{105}, a_{106}, sgn\left(s_{A_{2,105}}(0)\right), sgn\left(s_{A_{2,105}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{106}, a_{107}, sgn\left(s_{A_{2,106}}(0)\right), sgn\left(s_{A_{2,106}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{107}, a_{108}, sgn\left(s_{A_{2,107}}(0)\right), sgn\left(s_{A_{2,107}}(5.272)\right)\right] = \left[4.0031, 4.0032, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{108}, a_{109}, sgn\left(s_{A_{2,108}}(0)\right), sgn\left(s_{A_{2,108}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{109}, a_{110}, sgn\left(s_{A_{2,109}}(0)\right), sgn\left(s_{A_{2,109}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{110}, a_{111}, sgn\left(s_{A_{2,110}}(0)\right), sgn\left(s_{A_{2,110}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{111}, a_{112}, sgn\left(s_{A_{2,111}}(0)\right), sgn\left(s_{A_{2,111}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{112}, a_{113}, sgn\left(s_{A_{2,112}}(0)\right), sgn\left(s_{A_{2,112}}(5.272)\right)\right] = \left[4.0032, 4.0033, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{113}, a_{114}, sgn\left(s_{A_{2,113}}(0)\right), sgn\left(s_{A_{2,113}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{114}, a_{115}, sgn\left(s_{A_{2,114}}(0)\right), sgn\left(s_{A_{2,114}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{115}, a_{116}, sgn\left(s_{A_{2,115}}(0)\right), sgn\left(s_{A_{2,115}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{116}, a_{117}, sgn\left(s_{A_{2,116}}(0)\right), sgn\left(s_{A_{2,116}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{117}, a_{118}, sgn\left(s_{A_{2,117}}(0)\right), sgn\left(s_{A_{2,117}}(5.272)\right)\right] = \left[4.0033, 4.0034, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{118}, a_{119}, sgn\left(s_{A_{2,118}}(0)\right), sgn\left(s_{A_{2,118}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{119}, a_{120}, sgn\left(s_{A_{2,119}}(0)\right), sgn\left(s_{A_{2,119}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{120}, a_{121}, sgn\left(s_{A_{2,120}}(0)\right), sgn\left(s_{A_{2,120}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{121}, a_{122}, sgn\left(s_{A_{2,121}}(0)\right), sgn\left(s_{A_{2,121}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{122}, a_{123}, sgn\left(s_{A_{2,122}}(0)\right), sgn\left(s_{A_{2,122}}(5.272)\right)\right] = \left[4.0034, 4.0035, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{123}, a_{124}, sgn\left(s_{A_{2,123}}(0)\right), sgn\left(s_{A_{2,123}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{124}, a_{125}, sgn\left(s_{A_{2,124}}(0)\right), sgn\left(s_{A_{2,124}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{125}, a_{126}, sgn\left(s_{A_{2,125}}(0)\right), sgn\left(s_{A_{2,125}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{126}, a_{127}, sgn\left(s_{A_{2,126}}(0)\right), sgn\left(s_{A_{2,126}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{127}, a_{128}, sgn\left(s_{A_{2,127}}(0)\right), sgn\left(s_{A_{2,127}}(5.272)\right)\right] = \left[4.0035, 4.0036, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{128}, a_{129}, sgn\left(s_{A_{2,128}}(0)\right), sgn\left(s_{A_{2,128}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{129}, a_{130}, sgn\left(s_{A_{2,129}}(0)\right), sgn\left(s_{A_{2,129}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{130}, a_{131}, sgn\left(s_{A_{2,130}}(0)\right), sgn\left(s_{A_{2,130}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{131}, a_{132}, sgn\left(s_{A_{2,131}}(0)\right), sgn\left(s_{A_{2,131}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{132}, a_{133}, sgn\left(s_{A_{2,132}}(0)\right), sgn\left(s_{A_{2,132}}(5.272)\right)\right] = \left[4.0036, 4.0037, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{133}, a_{134}, sgn\left(s_{A_{2,133}}(0)\right), sgn\left(s_{A_{2,133}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{134}, a_{135}, sgn\left(s_{A_{2,134}}(0)\right), sgn\left(s_{A_{2,134}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{135}, a_{136}, sgn\left(s_{A_{2,135}}(0)\right), sgn\left(s_{A_{2,135}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{136}, a_{137}, sgn\left(s_{A_{2,136}}(0)\right), sgn\left(s_{A_{2,136}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{137}, a_{138}, sgn\left(s_{A_{2,137}}(0)\right), sgn\left(s_{A_{2,137}}(5.272)\right)\right] = \left[4.0037, 4.0038, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{138}, a_{139}, sgn\left(s_{A_{2,138}}(0)\right), sgn\left(s_{A_{2,138}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{139}, a_{140}, sgn\left(s_{A_{2,139}}(0)\right), sgn\left(s_{A_{2,139}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{140}, a_{141}, sgn\left(s_{A_{2,140}}(0)\right), sgn\left(s_{A_{2,140}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{141}, a_{142}, sgn\left(s_{A_{2,141}}(0)\right), sgn\left(s_{A_{2,141}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{142}, a_{143}, sgn\left(s_{A_{2,142}}(0)\right), sgn\left(s_{A_{2,142}}(5.272)\right)\right] = \left[4.0038, 4.0039, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{143}, a_{144}, sgn\left(s_{A_{2,143}}(0)\right), sgn\left(s_{A_{2,143}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{144}, a_{145}, sgn\left(s_{A_{2,144}}(0)\right), sgn\left(s_{A_{2,144}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{145}, a_{146}, sgn\left(s_{A_{2,145}}(0)\right), sgn\left(s_{A_{2,145}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{146}, a_{147}, sgn\left(s_{A_{2,146}}(0)\right), sgn\left(s_{A_{2,146}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{147}, a_{148}, sgn\left(s_{A_{2,147}}(0)\right), sgn\left(s_{A_{2,147}}(5.272)\right)\right] = \left[4.0039, 4.0040, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{148}, a_{149}, sgn\left(s_{A_{2,148}}(0)\right), sgn\left(s_{A_{2,148}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{149}, a_{150}, sgn\left(s_{A_{2,149}}(0)\right), sgn\left(s_{A_{2,149}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{150}, a_{151}, sgn\left(s_{A_{2,150}}(0)\right), sgn\left(s_{A_{2,150}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{151}, a_{152}, sgn\left(s_{A_{2,151}}(0)\right), sgn\left(s_{A_{2,151}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{152}, a_{153}, sgn\left(s_{A_{2,152}}(0)\right), sgn\left(s_{A_{2,152}}(5.272)\right)\right] = \left[4.0040, 4.0041, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{153}, a_{154}, sgn\left(s_{A_{2,153}}(0)\right), sgn\left(s_{A_{2,153}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{154}, a_{155}, sgn\left(s_{A_{2,154}}(0)\right), sgn\left(s_{A_{2,154}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{155}, a_{156}, sgn\left(s_{A_{2,155}}(0)\right), sgn\left(s_{A_{2,155}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{156}, a_{157}, sgn\left(s_{A_{2,156}}(0)\right), sgn\left(s_{A_{2,156}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{157}, a_{158}, sgn\left(s_{A_{2,157}}(0)\right), sgn\left(s_{A_{2,157}}(5.272)\right)\right] = \left[4.0041, 4.0042, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{158}, a_{159}, sgn\left(s_{A_{2,158}}(0)\right), sgn\left(s_{A_{2,158}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{159}, a_{160}, sgn\left(s_{A_{2,159}}(0)\right), sgn\left(s_{A_{2,159}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{160}, a_{161}, sgn\left(s_{A_{2,160}}(0)\right), sgn\left(s_{A_{2,160}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{161}, a_{162}, sgn\left(s_{A_{2,161}}(0)\right), sgn\left(s_{A_{2,161}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{162}, a_{163}, sgn\left(s_{A_{2,162}}(0)\right), sgn\left(s_{A_{2,162}}(5.272)\right)\right] = \left[4.0042, 4.0043, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{163}, a_{164}, sgn\left(s_{A_{2,163}}(0)\right), sgn\left(s_{A_{2,163}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{164}, a_{165}, sgn\left(s_{A_{2,164}}(0)\right), sgn\left(s_{A_{2,164}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{165}, a_{166}, sgn\left(s_{A_{2,165}}(0)\right), sgn\left(s_{A_{2,165}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{166}, a_{167}, sgn\left(s_{A_{2,166}}(0)\right), sgn\left(s_{A_{2,166}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{167}, a_{168}, sgn\left(s_{A_{2,167}}(0)\right), sgn\left(s_{A_{2,167}}(5.272)\right)\right] = \left[4.0043, 4.0044, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{168}, a_{169}, sgn\left(s_{A_{2,168}}(0)\right), sgn\left(s_{A_{2,168}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{169}, a_{170}, sgn\left(s_{A_{2,169}}(0)\right), sgn\left(s_{A_{2,169}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{170}, a_{171}, sgn\left(s_{A_{2,170}}(0)\right), sgn\left(s_{A_{2,170}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{171}, a_{172}, sgn\left(s_{A_{2,171}}(0)\right), sgn\left(s_{A_{2,171}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{172}, a_{173}, sgn\left(s_{A_{2,172}}(0)\right), sgn\left(s_{A_{2,172}}(5.272)\right)\right] = \left[4.0044, 4.0045, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{173}, a_{174}, sgn\left(s_{A_{2,173}}(0)\right), sgn\left(s_{A_{2,173}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{174}, a_{175}, sgn\left(s_{A_{2,174}}(0)\right), sgn\left(s_{A_{2,174}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{175}, a_{176}, sgn\left(s_{A_{2,175}}(0)\right), sgn\left(s_{A_{2,175}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{176}, a_{177}, sgn\left(s_{A_{2,176}}(0)\right), sgn\left(s_{A_{2,176}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{177}, a_{178}, sgn\left(s_{A_{2,177}}(0)\right), sgn\left(s_{A_{2,177}}(5.272)\right)\right] = \left[4.0045, 4.0046, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{178}, a_{179}, sgn\left(s_{A_{2,178}}(0)\right), sgn\left(s_{A_{2,178}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{179}, a_{180}, sgn\left(s_{A_{2,179}}(0)\right), sgn\left(s_{A_{2,179}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{180}, a_{181}, sgn\left(s_{A_{2,180}}(0)\right), sgn\left(s_{A_{2,180}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{181}, a_{182}, sgn\left(s_{A_{2,181}}(0)\right), sgn\left(s_{A_{2,181}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{182}, a_{183}, sgn\left(s_{A_{2,182}}(0)\right), sgn\left(s_{A_{2,182}}(5.272)\right)\right] = \left[4.0046, 4.0047, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{183}, a_{184}, sgn\left(s_{A_{2,183}}(0)\right), sgn\left(s_{A_{2,183}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{184}, a_{185}, sgn\left(s_{A_{2,184}}(0)\right), sgn\left(s_{A_{2,184}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{185}, a_{186}, sgn\left(s_{A_{2,185}}(0)\right), sgn\left(s_{A_{2,185}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{186}, a_{187}, sgn\left(s_{A_{2,186}}(0)\right), sgn\left(s_{A_{2,186}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{187}, a_{188}, sgn\left(s_{A_{2,187}}(0)\right), sgn\left(s_{A_{2,187}}(5.272)\right)\right] = \left[4.0047, 4.0048, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{188}, a_{189}, sgn\left(s_{A_{2,188}}(0)\right), sgn\left(s_{A_{2,188}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{189}, a_{190}, sgn\left(s_{A_{2,189}}(0)\right), sgn\left(s_{A_{2,189}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{190}, a_{191}, sgn\left(s_{A_{2,190}}(0)\right), sgn\left(s_{A_{2,190}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{191}, a_{192}, sgn\left(s_{A_{2,191}}(0)\right), sgn\left(s_{A_{2,191}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{192}, a_{193}, sgn\left(s_{A_{2,192}}(0)\right), sgn\left(s_{A_{2,192}}(5.272)\right)\right] = \left[4.0048, 4.0049, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{193}, a_{194}, sgn\left(s_{A_{2,193}}(0)\right), sgn\left(s_{A_{2,193}}(5.272)\right)\right] = \left[4.0049, 4.0049, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{194}, a_{195}, sgn\left(s_{A_{2,194}}(0)\right), sgn\left(s_{A_{2,194}}(5.272)\right)\right] = \left[4.0049, 4.0049, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{195}, a_{196}, sgn\left(s_{A_{2,195}}(0)\right), sgn\left(s_{A_{2,195}}(5.272)\right)\right] = \left[4.0049, 4.0049, \begin{bmatrix} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}, \begin{bmatrix} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{bmatrix}\right]$$

$$\left[a_{196}, a_{197}, sgn\left(s_{A_{2,196}}(0)\right), sgn\left(s_{A_{2,196}}(5.272)\right)\right] = \left[4.0049, 4.0049, \left[\begin{array}{cccccccccc} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{array}\right], \left[\begin{array}{cccccccccc} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{array}\right]\right]$$

$$\left[a_{197}, a_{198}, sgn\left(s_{A_{2,197}}(0)\right), sgn\left(s_{A_{2,197}}(5.272)\right)\right] = \left[4.0049, 4.0050, \left[\begin{array}{cccccccccc} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{array}\right], \left[\begin{array}{cccccccccc} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{array}\right]\right]$$

$$\left[a_{198}, a_{199}, sgn\left(s_{A_{2,198}}(0)\right), sgn\left(s_{A_{2,198}}(5.272)\right)\right] = \left[4.0050, 4.0050, \left[\begin{array}{cccccccccc} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{array}\right], \left[\begin{array}{cccccccccc} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{array}\right]\right]$$

$$\left[a_{199}, a_{200}, sgn\left(s_{A_{2,199}}(0)\right), sgn\left(s_{A_{2,199}}(5.272)\right)\right] = \left[4.0050, 4.0050, \left[\begin{array}{cccccccccc} 1 & 1 & 1 & -1 & 1 & 1 & -1 & -1 & -1 \end{array}\right], \left[\begin{array}{cccccccccc} 1 & -1 & -1 & 1 & 1 & 1 & -1 & -1 & -1 \end{array}\right]\right] \quad \textbf{(1)}$$

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