```
> # Set the parameters and functions
c :='c':
d :='d':
u :='u':
E2 := (18720000 c-80917200) u^7 + (247182000 c^2 + 158895891 - 31200000 d^3 - 625467960 d) u^6
      + (24960000 c^5 + 837743400 c^3 + 953375346 c - 182769600 d^4 - 1720233045 d^2) u^5
      + (46430800 c^6 + 1242271428 c^4 + 2383438365 c^2 - 2080000 d^7 - 398374080 d^5
      - 2200094964 d^3) u^4 + (28031640 c^7 + 971831142 c^5 + 3177917820 c^3 - 311653419 d^6
      - 1326447576 d^4) u^3 + (310906194 c^6 + 2383438365 c^4 - 87069840 d^7 - 431670600 d^5) u^2
      + (953375346 c^5 - 27934920 d^7-269600463 d^6) u + 158895891 c^6 - 139964760 d^7 :
print(Output);
# find Sturm's sequence``
 for j from 0 by 1 to 299 do
 c := 4001/1000 + (j+1)/300 · (4005/1000 - 4001/1000) :
 d := 4001/1000 + j/300 · (4005/1000 - 4001/1000) :
u :='u':
S := sturmseq(E2, u);
signnum := sturm(S, u, 4, 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_{E_{2,i}}(4)]
     u := 4;
     X[i] := signum(S[i]);
 # Find sgn [s_{E_{2,i}}(5.272)]
     u := 5272/1000 :
     Y[i] := signum(S[i]);
   end do;
 # show the final results
 print(['a'[j],'a'[j+1], sgn(s['E'[2, j]](4)), sgn(s['E'[2, j]](5.272))] = [evalf(d, 5), evalf(c, 5), X,
     Y]) ;
end do:
```

Output

$$\left[a_0, a_1, sgn\left(s_{E_{2,0}}(4)\right), sgn\left(s_{E_{2,0}}(5.272)\right)\right] = \left[4.0010, 4.0010, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]\right]$$

$$\left[a_1, a_2, sgn\left(s_{E_{2,1}}(4)\right), sgn\left(s_{E_{2,1}}(5.272)\right)\right] = \left[4.0010, 4.0010, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]\right]$$

$$\left[a_2, a_3, sgn\left(s_{E_{2,2}}(4)\right), sgn\left(s_{E_{2,2}}(5.272)\right)\right] = \left[4.0010, 4.0010, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]\right]$$

$$\left[a_3, a_4, sgn\left(s_{E_{2,3}}(4)\right), sgn\left(s_{E_{2,3}}(5.272)\right)\right] = \left[4.0010, 4.0011, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]\right]$$

$$\left[a_4, a_5, sgn\left(s_{E_{2,4}}(4)\right), sgn\left(s_{E_{2,4}}(5.272)\right)\right] = \left[4.0011, 4.0011, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]\right]$$

$$\left[a_5, a_6, sgn\left(s_{E_{2,5}}(4)\right), sgn\left(s_{E_{2,5}}(5.272)\right)\right] = \left[4.0011, 4.0011, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_6, a_7, sgn\left(s_{E_{2,6}}(4)\right), sgn\left(s_{E_{2,6}}(5.272)\right)\right] = \left[4.0011, 4.0011, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_7, a_8, sgn\left(s_{E_{2,7}}(4)\right), sgn\left(s_{E_{2,7}}(5.272)\right)\right] = \left[4.0011, 4.0011, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_8, a_9, sgn\left(s_{E_{2,8}}(4)\right), sgn\left(s_{E_{2,8}}(5.272)\right)\right] = \left[4.0011, 4.0011, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_9, a_{10}, sgn\left(s_{E_{2,9}}(4)\right), sgn\left(s_{E_{2,9}}(5.272)\right)\right] = \left[4.0011, 4.0011, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{10}, a_{11}, sgn\left(s_{E_{2,10}}(4)\right), sgn\left(s_{E_{2,10}}(5.272)\right)\right] = \left[4.0011, 4.0011, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{11}, a_{12}, sgn\left(s_{E_{2,11}}(4)\right), sgn\left(s_{E_{2,11}}(5.272)\right)\right] = \left[4.0011, 4.0012, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{12}, a_{13}, sgn\left(s_{E_{2,12}}(4)\right), sgn\left(s_{E_{2,12}}(5.272)\right)\right] = \left[4.0012, 4.0012, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{13}, a_{14}, sgn\left(s_{E_{2,13}}(4)\right), sgn\left(s_{E_{2,13}}(5.272)\right)\right] = \left[4.0012, 4.0012, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{14}, a_{15}, sgn\left(s_{E_{2,14}}(4)\right), sgn\left(s_{E_{2,14}}(5.272)\right)\right] = \left[4.0012, 4.0012, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{15}, a_{16}, sgn\left(s_{E_{2,15}}(4)\right), sgn\left(s_{E_{2,15}}(5.272)\right)\right] = \left[4.0012, 4.0012, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{16}, a_{17}, sgn\left(s_{E_{2,16}}(4)\right), sgn\left(s_{E_{2,16}}(5.272)\right)\right] = \left[4.0012, 4.0012, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{17}, a_{18}, sgn\left(s_{E_{2,17}}(4)\right), sgn\left(s_{E_{2,17}}(5.272)\right)\right] = \left[4.0012, 4.0012, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{18}, a_{19}, sgn\left(s_{E_{2,18}}(4)\right), sgn\left(s_{E_{2,18}}(5.272)\right)\right] = \left[4.0012, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{19}, a_{20}, sgn\left(s_{E_{2,19}}(4)\right), sgn\left(s_{E_{2,19}}(5.272)\right)\right] = \left[4.0013, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{20}, a_{21}, sgn\left(s_{E_{2,20}}(4)\right), sgn\left(s_{E_{2,20}}(5.272)\right)\right] = \left[4.0013, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{21}, a_{22}, sgn\left(s_{E_{2,21}}(4)\right), sgn\left(s_{E_{2,21}}(5.272)\right)\right] = \left[4.0013, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{22}, a_{23}, sgn\left(s_{E_{2,22}}(4)\right), sgn\left(s_{E_{2,22}}(5.272)\right)\right] = \left[4.0013, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{23}, a_{24}, sgn\left(s_{E_{2,23}}(4)\right), sgn\left(s_{E_{2,23}}(5.272)\right)\right] = \left[4.0013, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{24}, a_{25}, sgn\left(s_{E_{2,24}}(4)\right), sgn\left(s_{E_{2,24}}(5.272)\right)\right] = \left[4.0013, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{25}, a_{26}, sgn\left(s_{E_{2,25}}(4)\right), sgn\left(s_{E_{2,25}}(5.272)\right)\right] = \left[4.0013, 4.0013, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{26}, a_{27}, sgn\left(s_{E_{2,26}}(4)\right), sgn\left(s_{E_{2,26}}(5.272)\right)\right] = \left[4.0013, 4.0014, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{27}, a_{28}, sgn\left(s_{E_{2,27}}(4)\right), sgn\left(s_{E_{2,27}}(5.272)\right)\right] = \left[4.0014, 4.0014, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{28}, a_{29}, sgn\left(s_{E_{2,28}}(4)\right), sgn\left(s_{E_{2,28}}(5.272)\right)\right] = \left[4.0014, 4.0014, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{29}, a_{30}, sgn\left(s_{E_{2,29}}(4)\right), sgn\left(s_{E_{2,29}}(5.272)\right)\right] = \left[4.0014, 4.0014, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{30}, a_{31}, sgn\left(s_{E_{2,30}}(4)\right), sgn\left(s_{E_{2,30}}(5.272)\right)\right] = \left[4.0014, 4.0014, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{31}, a_{32}, sgn\left(s_{E_{2,31}}(4)\right), sgn\left(s_{E_{2,31}}(5.272)\right)\right] = \left[4.0014, 4.0014, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{32}, a_{33}, sgn\left(s_{E_{2,32}}(4)\right), sgn\left(s_{E_{2,32}}(5.272)\right)\right] = \left[4.0014, 4.0014, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{33}, a_{34}, sgn\left(s_{E_{2,33}}(4)\right), sgn\left(s_{E_{2,33}}(5.272)\right)\right] = \left[4.0014, 4.0015, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{34}, a_{35}, sgn\left(s_{E_{2,34}}(4)\right), sgn\left(s_{E_{2,34}}(5.272)\right)\right] = \left[4.0015, 4.0015, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{35}, a_{36}, sgn\left(s_{E_{2,35}}(4)\right), sgn\left(s_{E_{2,35}}(5.272)\right)\right] = \left[4.0015, 4.0015, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{36}, a_{37}, sgn\left(s_{E_{2,36}}(4)\right), sgn\left(s_{E_{2,36}}(5.272)\right)\right] = \left[4.0015, 4.0015, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{37}, a_{38}, sgn\left(s_{E_{2,37}}(4)\right), sgn\left(s_{E_{2,37}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{38}, a_{39}, sgn\left(s_{E_{2,38}}(4)\right), sgn\left(s_{E_{2,38}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{39}, a_{40}, sgn\left(s_{E_{2,39}}(4)\right), sgn\left(s_{E_{2,39}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{40}, a_{41}, sgn\left(s_{E_{2,40}}(4)\right), sgn\left(s_{E_{2,40}}(5.272)\right)\right] = \left[4.0015, 4.0015, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{41}, a_{42}, sgn\left(s_{E_{2,41}}(4)\right), sgn\left(s_{E_{2,41}}(5.272)\right)\right] = \left[4.0015, 4.0016, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{42}, a_{43}, sgn\left(s_{E_{2,42}}(4)\right), sgn\left(s_{E_{2,42}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{43}, a_{44}, sgn\left(s_{E_{2,43}}(4)\right), sgn\left(s_{E_{2,43}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{44}, a_{45}, sgn\left(s_{E_{2,44}}(4)\right), sgn\left(s_{E_{2,44}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{45}, a_{46}, sgn\left(s_{E_{2,45}}(4)\right), sgn\left(s_{E_{2,45}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{46}, a_{47}, sgn\left(s_{E_{2,46}}(4)\right), sgn\left(s_{E_{2,46}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{47}, a_{48}, sgn\left(s_{E_{2,47}}(4)\right), sgn\left(s_{E_{2,47}}(5.272)\right)\right] = \left[4.0016, 4.0016, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{48}, a_{49}, sgn\left(s_{E_{2,48}}(4)\right), sgn\left(s_{E_{2,48}}(5.272)\right)\right] = \left[4.0016, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{49}, a_{50}, sgn\left(s_{E_{2,49}}(4)\right), sgn\left(s_{E_{2,49}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{50}, a_{51}, sgn\left(s_{E_{2,50}}(4)\right), sgn\left(s_{E_{2,50}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{51}, a_{52}, sgn\left(s_{E_{2,51}}(4)\right), sgn\left(s_{E_{2,51}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{52}, a_{53}, sgn\left(s_{E_{2,52}}(4)\right), sgn\left(s_{E_{2,52}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{53}, a_{54}, sgn\left(s_{E_{2,53}}(4)\right), sgn\left(s_{E_{2,53}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{54}, a_{55}, sgn\left(s_{E_{2,54}}(4)\right), sgn\left(s_{E_{2,54}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{55}, a_{56}, sgn\left(s_{E_{2,55}}(4)\right), sgn\left(s_{E_{2,55}}(5.272)\right)\right] = \left[4.0017, 4.0017, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{56}, a_{57}, sgn\left(s_{E_{2,56}}(4)\right), sgn\left(s_{E_{2,56}}(5.272)\right)\right] = \left[4.0017, 4.0018, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{57}, a_{58}, sgn\left(s_{E_{2,57}}(4)\right), sgn\left(s_{E_{2,57}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{58}, a_{59}, sgn\left(s_{E_{2,58}}(4)\right), sgn\left(s_{E_{2,58}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{59}, a_{60}, sgn\left(s_{E_{2,59}}(4)\right), sgn\left(s_{E_{2,59}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{60}, a_{61}, sgn\left(s_{E_{2,60}}(4)\right), sgn\left(s_{E_{2,60}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{61}, a_{62}, sgn\left(s_{E_{2,61}}(4)\right), sgn\left(s_{E_{2,61}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{62}, a_{63}, sgn\left(s_{E_{2,62}}(4)\right), sgn\left(s_{E_{2,62}}(5.272)\right)\right] = \left[4.0018, 4.0018, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{63}, a_{64}, sgn\left(s_{E_{2,63}}(4)\right), sgn\left(s_{E_{2,63}}(5.272)\right)\right] = \left[4.0018, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{64}, a_{65}, sgn\left(s_{E_{2,64}}(4)\right), sgn\left(s_{E_{2,64}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{65}, a_{66}, sgn\left(s_{E_{2,65}}(4)\right), sgn\left(s_{E_{2,65}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{66}, a_{67}, sgn\left(s_{E_{2,66}}(4)\right), sgn\left(s_{E_{2,66}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{67}, a_{68}, sgn\left(s_{E_{2,67}}(4)\right), sgn\left(s_{E_{2,67}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{68}, a_{69}, sgn\left(s_{E_{2,68}}(4)\right), sgn\left(s_{E_{2,68}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{69}, a_{70}, sgn\left(s_{E_{2,69}}(4)\right), sgn\left(s_{E_{2,69}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{70}, a_{71}, sgn\left(s_{E_{2,70}}(4)\right), sgn\left(s_{E_{2,70}}(5.272)\right)\right] = \left[4.0019, 4.0019, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{71}, a_{72}, sgn\left(s_{E_{2,71}}(4)\right), sgn\left(s_{E_{2,71}}(5.272)\right)\right] = \left[4.0019, 4.0020, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{72}, a_{73}, sgn\left(s_{E_{2,72}}(4)\right), sgn\left(s_{E_{2,72}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{73}, a_{74}, sgn\left(s_{E_{2,73}}(4)\right), sgn\left(s_{E_{2,73}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{74}, a_{75}, sgn\left(s_{E_{2,74}}(4)\right), sgn\left(s_{E_{2,74}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{75}, a_{76}, sgn\left(s_{E_{2,75}}(4)\right), sgn\left(s_{E_{2,75}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{76}, a_{77}, sgn\left(s_{E_{2,76}}(4)\right), sgn\left(s_{E_{2,76}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{77}, a_{78}, sgn\left(s_{E_{2,77}}(4)\right), sgn\left(s_{E_{2,77}}(5.272)\right)\right] = \left[4.0020, 4.0020, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{78}, a_{79}, sgn\left(s_{E_{2,78}}(4)\right), sgn\left(s_{E_{2,78}}(5.272)\right)\right] = \left[4.0020, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{79}, a_{80}, sgn\left(s_{E_{2,79}}(4)\right), sgn\left(s_{E_{2,79}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{80}, a_{81}, sgn\left(s_{E_{2,80}}(4)\right), sgn\left(s_{E_{2,80}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{81}, a_{82}, sgn\left(s_{E_{2,81}}(4)\right), sgn\left(s_{E_{2,81}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{82}, a_{83}, sgn\left(s_{E_{2,82}}(4)\right), sgn\left(s_{E_{2,82}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{83}, a_{84}, sgn\left(s_{E_{2,83}}(4)\right), sgn\left(s_{E_{2,83}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{84}, a_{85}, sgn\left(s_{E_{2,84}}(4)\right), sgn\left(s_{E_{2,84}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{85}, a_{86}, sgn\left(s_{E_{2,85}}(4)\right), sgn\left(s_{E_{2,85}}(5.272)\right)\right] = \left[4.0021, 4.0021, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{86}, a_{87}, sgn\left(s_{E_{2,86}}(4)\right), sgn\left(s_{E_{2,86}}(5.272)\right)\right] = \left[4.0021, 4.0022, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{87}, a_{88}, sgn\left(s_{E_{2,87}}(4)\right), sgn\left(s_{E_{2,87}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{88}, a_{89}, sgn\left(s_{E_{2,88}}(4)\right), sgn\left(s_{E_{2,88}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{89}, a_{90}, sgn\left(s_{E_{2,89}}(4)\right), sgn\left(s_{E_{2,89}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{90}, a_{91}, sgn\left(s_{E_{2,90}}(4)\right), sgn\left(s_{E_{2,90}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{91}, a_{92}, sgn\left(s_{E_{2,91}}(4)\right), sgn\left(s_{E_{2,91}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{92}, a_{93}, sgn\left(s_{E_{2,92}}(4)\right), sgn\left(s_{E_{2,92}}(5.272)\right)\right] = \left[4.0022, 4.0022, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{93}, a_{94}, sgn\left(s_{E_{2,93}}(4)\right), sgn\left(s_{E_{2,93}}(5.272)\right)\right] = \left[4.0022, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{94}, a_{95}, sgn\left(s_{E_{2,94}}(4)\right), sgn\left(s_{E_{2,94}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{95}, a_{96}, sgn\left(s_{E_{2,95}}(4)\right), sgn\left(s_{E_{2,95}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{96}, a_{97}, sgn\left(s_{E_{2,96}}(4)\right), sgn\left(s_{E_{2,96}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{97}, a_{98}, sgn\left(s_{E_{2,97}}(4)\right), sgn\left(s_{E_{2,97}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{98}, a_{99}, sgn\left(s_{E_{2,98}}(4)\right), sgn\left(s_{E_{2,98}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{99}, a_{100}, sgn\left(s_{E_{2,99}}(4)\right), sgn\left(s_{E_{2,99}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{100}, a_{101}, sgn\left(s_{E_{2,100}}(4)\right), sgn\left(s_{E_{2,100}}(5.272)\right)\right] = \left[4.0023, 4.0023, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{101}, a_{102}, sgn\left(s_{E_{2,101}}(4)\right), sgn\left(s_{E_{2,101}}(5.272)\right)\right] = \left[4.0023, 4.0024, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{102}, a_{103}, sgn\left(s_{E_{2,102}}(4)\right), sgn\left(s_{E_{2,102}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{103}, a_{104}, sgn\left(s_{E_{2,103}}(4)\right), sgn\left(s_{E_{2,103}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{104}, a_{105}, sgn\left(s_{E_{2,104}}(4)\right), sgn\left(s_{E_{2,104}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{105}, a_{106}, sgn\left(s_{E_{2,105}}(4)\right), sgn\left(s_{E_{2,105}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{106}, a_{107}, sgn\left(s_{E_{2,106}}(4)\right), sgn\left(s_{E_{2,106}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{107}, a_{108}, sgn\left(s_{E_{2,107}}(4)\right), sgn\left(s_{E_{2,107}}(5.272)\right)\right] = \left[4.0024, 4.0024, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{108}, a_{109}, sgn\left(s_{E_{2,108}}(4)\right), sgn\left(s_{E_{2,108}}(5.272)\right)\right] = \left[4.0024, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{109}, a_{110}, sgn\left(s_{E_{2,109}}(4)\right), sgn\left(s_{E_{2,109}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{110}, a_{111}, sgn\left(s_{E_{2,110}}(4)\right), sgn\left(s_{E_{2,110}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{111}, a_{112}, sgn\left(s_{E_{2,111}}(4)\right), sgn\left(s_{E_{2,111}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{112}, a_{113}, sgn\left(s_{E_{2,112}}(4)\right), sgn\left(s_{E_{2,112}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{113}, a_{114}, sgn\left(s_{E_{2,113}}(4)\right), sgn\left(s_{E_{2,113}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{114}, a_{115}, sgn\left(s_{E_{2,114}}(4)\right), sgn\left(s_{E_{2,114}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{115}, a_{116}, sgn\left(s_{E_{2,115}}(4)\right), sgn\left(s_{E_{2,115}}(5.272)\right)\right] = \left[4.0025, 4.0025, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{116}, a_{117}, sgn\left(s_{E_{2,116}}(4)\right), sgn\left(s_{E_{2,116}}(5.272)\right)\right] = \left[4.0025, 4.0026, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{117}, a_{118}, sgn\left(s_{E_{2,117}}(4)\right), sgn\left(s_{E_{2,117}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{118}, a_{119}, sgn\left(s_{E_{2,118}}(4)\right), sgn\left(s_{E_{2,118}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{119}, a_{120}, sgn\left(s_{E_{2,119}}(4)\right), sgn\left(s_{E_{2,119}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{120}, a_{121}, sgn\left(s_{E_{2,120}}(4)\right), sgn\left(s_{E_{2,120}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{121}, a_{122}, sgn\left(s_{E_{2,121}}(4)\right), sgn\left(s_{E_{2,121}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{122}, a_{123}, sgn\left(s_{E_{2,122}}(4)\right), sgn\left(s_{E_{2,122}}(5.272)\right)\right] = \left[4.0026, 4.0026, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{123}, a_{124}, sgn\left(s_{E_{2,123}}(4)\right), sgn\left(s_{E_{2,123}}(5.272)\right)\right] = \left[4.0026, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{124}, a_{125}, sgn\left(s_{E_{2,124}}(4)\right), sgn\left(s_{E_{2,124}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{125}, a_{126}, sgn\left(s_{E_{2,125}}(4)\right), sgn\left(s_{E_{2,125}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{126}, a_{127}, sgn\left(s_{E_{2,126}}(4)\right), sgn\left(s_{E_{2,126}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{127}, a_{128}, sgn\left(s_{E_{2,127}}(4)\right), sgn\left(s_{E_{2,127}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{128}, a_{129}, sgn\left(s_{E_{2,128}}(4)\right), sgn\left(s_{E_{2,128}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{129}, a_{130}, sgn\left(s_{E_{2,129}}(4)\right), sgn\left(s_{E_{2,129}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{130}, a_{131}, sgn\left(s_{E_{2,130}}(4)\right), sgn\left(s_{E_{2,130}}(5.272)\right)\right] = \left[4.0027, 4.0027, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{131}, a_{132}, sgn\left(s_{E_{2,131}}(4)\right), sgn\left(s_{E_{2,131}}(5.272)\right)\right] = \left[4.0027, 4.0028, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{132}, a_{133}, sgn\left(s_{E_{2,132}}(4)\right), sgn\left(s_{E_{2,132}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{133}, a_{134}, sgn\left(s_{E_{2,133}}(4)\right), sgn\left(s_{E_{2,133}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{134}, a_{135}, sgn\left(s_{E_{2,134}}(4)\right), sgn\left(s_{E_{2,134}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{135}, a_{136}, sgn\left(s_{E_{2,135}}(4)\right), sgn\left(s_{E_{2,135}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{136}, a_{137}, sgn\left(s_{E_{2,136}}(4)\right), sgn\left(s_{E_{2,136}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{137}, a_{138}, sgn\left(s_{E_{2,137}}(4)\right), sgn\left(s_{E_{2,137}}(5.272)\right)\right] = \left[4.0028, 4.0028, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{138}, a_{139}, sgn\left(s_{E_{2,138}}(4)\right), sgn\left(s_{E_{2,138}}(5.272)\right)\right] = \left[4.0028, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{139}, a_{140}, sgn\left(s_{E_{2,139}}(4)\right), sgn\left(s_{E_{2,139}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{140}, a_{141}, sgn\left(s_{E_{2,140}}(4)\right), sgn\left(s_{E_{2,140}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{141}, a_{142}, sgn\left(s_{E_{2,141}}(4)\right), sgn\left(s_{E_{2,141}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{142}, a_{143}, sgn\left(s_{E_{2,142}}(4)\right), sgn\left(s_{E_{2,142}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{143}, a_{144}, sgn\left(s_{E_{2,143}}(4)\right), sgn\left(s_{E_{2,143}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{144}, a_{145}, sgn\left(s_{E_{2,144}}(4)\right), sgn\left(s_{E_{2,144}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{145}, a_{146}, sgn\left(s_{E_{2,145}}(4)\right), sgn\left(s_{E_{2,145}}(5.272)\right)\right] = \left[4.0029, 4.0029, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{146}, a_{147}, sgn\left(s_{E_{2,146}}(4)\right), sgn\left(s_{E_{2,146}}(5.272)\right)\right] = \left[4.0029, 4.0030, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{147}, a_{148}, sgn\left(s_{E_{2,147}}(4)\right), sgn\left(s_{E_{2,147}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{148}, a_{149}, sgn\left(s_{E_{2,148}}(4)\right), sgn\left(s_{E_{2,148}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{149}, a_{150}, sgn\left(s_{E_{2,149}}(4)\right), sgn\left(s_{E_{2,149}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{150}, a_{151}, sgn\left(s_{E_{2,150}}(4)\right), sgn\left(s_{E_{2,150}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{151}, a_{152}, sgn\left(s_{E_{2,151}}(4)\right), sgn\left(s_{E_{2,151}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{152}, a_{153}, sgn\left(s_{E_{2,152}}(4)\right), sgn\left(s_{E_{2,152}}(5.272)\right)\right] = \left[4.0030, 4.0030, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{153}, a_{154}, sgn\left(s_{E_{2,153}}(4)\right), sgn\left(s_{E_{2,153}}(5.272)\right)\right] = \left[4.0030, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{154}, a_{155}, sgn\left(s_{E_{2,154}}(4)\right), sgn\left(s_{E_{2,154}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{155}, a_{156}, sgn\left(s_{E_{2,155}}(4)\right), sgn\left(s_{E_{2,155}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{156}, a_{157}, sgn\left(s_{E_{2,156}}(4)\right), sgn\left(s_{E_{2,156}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{157}, a_{158}, sgn\left(s_{E_{2,157}}(4)\right), sgn\left(s_{E_{2,157}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{158}, a_{159}, sgn\left(s_{E_{2,158}}(4)\right), sgn\left(s_{E_{2,158}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{159}, a_{160}, sgn\left(s_{E_{2,159}}(4)\right), sgn\left(s_{E_{2,159}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{160}, a_{161}, sgn\left(s_{E_{2,160}}(4)\right), sgn\left(s_{E_{2,160}}(5.272)\right)\right] = \left[4.0031, 4.0031, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{161}, a_{162}, sgn\left(s_{E_{2,161}}(4)\right), sgn\left(s_{E_{2,161}}(5.272)\right)\right] = \left[4.0031, 4.0032, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{162}, a_{163}, sgn\left(s_{E_{2,162}}(4)\right), sgn\left(s_{E_{2,162}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{163}, a_{164}, sgn\left(s_{E_{2,163}}(4)\right), sgn\left(s_{E_{2,163}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{164}, a_{165}, sgn\left(s_{E_{2,164}}(4)\right), sgn\left(s_{E_{2,164}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{165}, a_{166}, sgn\left(s_{E_{2,165}}(4)\right), sgn\left(s_{E_{2,165}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{166}, a_{167}, sgn\left(s_{E_{2,166}}(4)\right), sgn\left(s_{E_{2,166}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{167}, a_{168}, sgn\left(s_{E_{2,167}}(4)\right), sgn\left(s_{E_{2,167}}(5.272)\right)\right] = \left[4.0032, 4.0032, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{168}, a_{169}, sgn\left(s_{E_{2,168}}(4)\right), sgn\left(s_{E_{2,168}}(5.272)\right)\right] = \left[4.0032, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{169}, a_{170}, sgn\left(s_{E_{2,169}}(4)\right), sgn\left(s_{E_{2,169}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{170}, a_{171}, sgn\left(s_{E_{2,170}}(4)\right), sgn\left(s_{E_{2,170}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{171}, a_{172}, sgn\left(s_{E_{2,171}}(4)\right), sgn\left(s_{E_{2,171}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{172}, a_{173}, sgn\left(s_{E_{2,172}}(4)\right), sgn\left(s_{E_{2,172}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{173}, a_{174}, sgn\left(s_{E_{2,173}}(4)\right), sgn\left(s_{E_{2,173}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{174}, a_{175}, sgn\left(s_{E_{2,174}}(4)\right), sgn\left(s_{E_{2,174}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{175}, a_{176}, sgn\left(s_{E_{2,175}}(4)\right), sgn\left(s_{E_{2,175}}(5.272)\right)\right] = \left[4.0033, 4.0033, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{176}, a_{177}, sgn\left(s_{E_{2,176}}(4)\right), sgn\left(s_{E_{2,176}}(5.272)\right)\right] = \left[4.0033, 4.0034, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{177}, a_{178}, sgn\left(s_{E_{2,177}}(4)\right), sgn\left(s_{E_{2,177}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{178}, a_{179}, sgn\left(s_{E_{2,178}}(4)\right), sgn\left(s_{E_{2,178}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{179}, a_{180}, sgn\left(s_{E_{2,179}}(4)\right), sgn\left(s_{E_{2,179}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{180}, a_{181}, sgn\left(s_{E_{2,180}}(4)\right), sgn\left(s_{E_{2,180}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{181}, a_{182}, sgn\left(s_{E_{2,181}}(4)\right), sgn\left(s_{E_{2,181}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{182}, a_{183}, sgn\left(s_{E_{2,182}}(4)\right), sgn\left(s_{E_{2,182}}(5.272)\right)\right] = \left[4.0034, 4.0034, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{183}, a_{184}, sgn\left(s_{E_{2,183}}(4)\right), sgn\left(s_{E_{2,183}}(5.272)\right)\right] = \left[4.0034, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{184}, a_{185}, sgn\left(s_{E_{2,184}}(4)\right), sgn\left(s_{E_{2,184}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{185}, a_{186}, sgn\left(s_{E_{2,185}}(4)\right), sgn\left(s_{E_{2,185}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{186}, a_{187}, sgn\left(s_{E_{2,186}}(4)\right), sgn\left(s_{E_{2,186}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{187}, a_{188}, sgn\left(s_{E_{2,187}}(4)\right), sgn\left(s_{E_{2,187}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{188}, a_{189}, sgn\left(s_{E_{2,188}}(4)\right), sgn\left(s_{E_{2,188}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{189}, a_{190}, sgn\left(s_{E_{2,189}}(4)\right), sgn\left(s_{E_{2,189}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{190}, a_{191}, sgn\left(s_{E_{2,190}}(4)\right), sgn\left(s_{E_{2,190}}(5.272)\right)\right] = \left[4.0035, 4.0035, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{191}, a_{192}, sgn\left(s_{E_{2,191}}(4)\right), sgn\left(s_{E_{2,191}}(5.272)\right)\right] = \left[4.0035, 4.0036, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{192}, a_{193}, sgn\left(s_{E_{2,192}}(4)\right), sgn\left(s_{E_{2,192}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{193}, a_{194}, sgn\left(s_{E_{2,193}}(4)\right), sgn\left(s_{E_{2,193}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{194}, a_{195}, sgn\left(s_{E_{2,194}}(4)\right), sgn\left(s_{E_{2,194}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{195}, a_{196}, sgn\left(s_{E_{2,195}}(4)\right), sgn\left(s_{E_{2,195}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{196}, a_{197}, sgn\left(s_{E_{2,196}}(4)\right), sgn\left(s_{E_{2,196}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{197}, a_{198}, sgn\left(s_{E_{2,197}}(4)\right), sgn\left(s_{E_{2,197}}(5.272)\right)\right] = \left[4.0036, 4.0036, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{198}, a_{199}, sgn\left(s_{E_{2,198}}(4)\right), sgn\left(s_{E_{2,198}}(5.272)\right)\right] = \left[4.0036, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{199}, a_{200}, sgn\left(s_{E_{2,199}}(4)\right), sgn\left(s_{E_{2,199}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{200}, a_{201}, sgn\left(s_{E_{2,200}}(4)\right), sgn\left(s_{E_{2,200}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{201}, a_{202}, sgn\left(s_{E_{2,201}}(4)\right), sgn\left(s_{E_{2,201}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{202}, a_{203}, sgn\left(s_{E_{2,202}}(4)\right), sgn\left(s_{E_{2,202}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{203}, a_{204}, sgn\left(s_{E_{2,203}}(4)\right), sgn\left(s_{E_{2,203}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{204}, a_{205}, sgn\left(s_{E_{2,204}}(4)\right), sgn\left(s_{E_{2,204}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{205}, a_{206}, sgn\left(s_{E_{2,205}}(4)\right), sgn\left(s_{E_{2,205}}(5.272)\right)\right] = \left[4.0037, 4.0037, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{206}, a_{207}, sgn\left(s_{E_{2,206}}(4)\right), sgn\left(s_{E_{2,206}}(5.272)\right)\right] = \left[4.0037, 4.0038, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{207}, a_{208}, sgn\left(s_{E_{2,207}}(4)\right), sgn\left(s_{E_{2,207}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{208}, a_{209}, sgn\left(s_{E_{2,208}}(4)\right), sgn\left(s_{E_{2,208}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{209}, a_{210}, sgn\left(s_{E_{2,209}}(4)\right), sgn\left(s_{E_{2,209}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{210}, a_{211}, sgn\left(s_{E_{2,210}}(4)\right), sgn\left(s_{E_{2,210}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{211}, a_{212}, sgn\left(s_{E_{2,211}}(4)\right), sgn\left(s_{E_{2,211}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{212}, a_{213}, sgn\left(s_{E_{2,212}}(4)\right), sgn\left(s_{E_{2,212}}(5.272)\right)\right] = \left[4.0038, 4.0038, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{213}, a_{214}, sgn\left(s_{E_{2,213}}(4)\right), sgn\left(s_{E_{2,213}}(5.272)\right)\right] = \left[4.0038, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{214}, a_{215}, sgn\left(s_{E_{2,214}}(4)\right), sgn\left(s_{E_{2,214}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{215}, a_{216}, sgn\left(s_{E_{2,215}}(4)\right), sgn\left(s_{E_{2,215}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{216}, a_{217}, sgn\left(s_{E_{2,216}}(4)\right), sgn\left(s_{E_{2,216}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{217}, a_{218}, sgn\left(s_{E_{2,217}}(4)\right), sgn\left(s_{E_{2,217}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{218}, a_{219}, sgn\left(s_{E_{2,218}}(4)\right), sgn\left(s_{E_{2,218}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{219}, a_{220}, sgn\left(s_{E_{2,219}}(4)\right), sgn\left(s_{E_{2,219}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{220}, a_{221}, sgn\left(s_{E_{2,220}}(4)\right), sgn\left(s_{E_{2,220}}(5.272)\right)\right] = \left[4.0039, 4.0039, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{221}, a_{222}, sgn\left(s_{E_{2,221}}(4)\right), sgn\left(s_{E_{2,221}}(5.272)\right)\right] = \left[4.0039, 4.0040, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{222}, a_{223}, sgn\left(s_{E_{2,222}}(4)\right), sgn\left(s_{E_{2,222}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{223}, a_{224}, sgn\left(s_{E_{2,223}}(4)\right), sgn\left(s_{E_{2,223}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{224}, a_{225}, sgn\left(s_{E_{2,224}}(4)\right), sgn\left(s_{E_{2,224}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{225}, a_{226}, sgn\left(s_{E_{2,225}}(4)\right), sgn\left(s_{E_{2,225}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{226}, a_{227}, sgn\left(s_{E_{2,226}}(4)\right), sgn\left(s_{E_{2,226}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{227}, a_{228}, sgn\left(s_{E_{2,227}}(4)\right), sgn\left(s_{E_{2,227}}(5.272)\right)\right] = \left[4.0040, 4.0040, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{228}, a_{229}, sgn\left(s_{E_{2,228}}(4)\right), sgn\left(s_{E_{2,228}}(5.272)\right)\right] = \left[4.0040, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{229}, a_{230}, sgn\left(s_{E_{2,229}}(4)\right), sgn\left(s_{E_{2,229}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{230}, a_{231}, sgn\left(s_{E_{2,230}}(4)\right), sgn\left(s_{E_{2,230}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{231}, a_{232}, sgn\left(s_{E_{2,231}}(4)\right), sgn\left(s_{E_{2,231}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{232}, a_{233}, sgn\left(s_{E_{2,232}}(4)\right), sgn\left(s_{E_{2,232}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{233}, a_{234}, sgn\left(s_{E_{2,233}}(4)\right), sgn\left(s_{E_{2,233}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{234}, a_{235}, sgn\left(s_{E_{2,234}}(4)\right), sgn\left(s_{E_{2,234}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{235}, a_{236}, sgn\left(s_{E_{2,235}}(4)\right), sgn\left(s_{E_{2,235}}(5.272)\right)\right] = \left[4.0041, 4.0041, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{236}, a_{237}, sgn\left(s_{E_{2,236}}(4)\right), sgn\left(s_{E_{2,236}}(5.272)\right)\right] = \left[4.0041, 4.0042, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{237}, a_{238}, sgn\left(s_{E_{2,237}}(4)\right), sgn\left(s_{E_{2,237}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{238}, a_{239}, sgn\left(s_{E_{2,238}}(4)\right), sgn\left(s_{E_{2,238}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{239}, a_{240}, sgn\left(s_{E_{2,239}}(4)\right), sgn\left(s_{E_{2,239}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{240}, a_{241}, sgn\left(s_{E_{2,240}}(4)\right), sgn\left(s_{E_{2,240}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{241}, a_{242}, sgn\left(s_{E_{2,241}}(4)\right), sgn\left(s_{E_{2,241}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{242}, a_{243}, sgn\left(s_{E_{2,242}}(4)\right), sgn\left(s_{E_{2,242}}(5.272)\right)\right] = \left[4.0042, 4.0042, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{243}, a_{244}, sgn\left(s_{E_{2,243}}(4)\right), sgn\left(s_{E_{2,243}}(5.272)\right)\right] = \left[4.0042, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{244}, a_{245}, sgn\left(s_{E_{2,244}}(4)\right), sgn\left(s_{E_{2,244}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{245}, a_{246}, sgn\left(s_{E_{2,245}}(4)\right), sgn\left(s_{E_{2,245}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{246}, a_{247}, sgn\left(s_{E_{2,246}}(4)\right), sgn\left(s_{E_{2,246}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{247}, a_{248}, sgn\left(s_{E_{2,247}}(4)\right), sgn\left(s_{E_{2,247}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{248}, a_{249}, sgn\left(s_{E_{2,248}}(4)\right), sgn\left(s_{E_{2,248}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{249}, a_{250}, sgn\left(s_{E_{2,249}}(4)\right), sgn\left(s_{E_{2,249}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{250}, a_{251}, sgn\left(s_{E_{2,250}}(4)\right), sgn\left(s_{E_{2,250}}(5.272)\right)\right] = \left[4.0043, 4.0043, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{251}, a_{252}, sgn\left(s_{E_{2,251}}(4)\right), sgn\left(s_{E_{2,251}}(5.272)\right)\right] = \left[4.0043, 4.0044, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{252}, a_{253}, sgn\left(s_{E_{2,252}}(4)\right), sgn\left(s_{E_{2,252}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{253}, a_{254}, sgn\left(s_{E_{2,253}}(4)\right), sgn\left(s_{E_{2,253}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{254}, a_{255}, sgn\left(s_{E_{2,254}}(4)\right), sgn\left(s_{E_{2,254}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{255}, a_{256}, sgn\left(s_{E_{2,255}}(4)\right), sgn\left(s_{E_{2,255}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{256}, a_{257}, sgn\left(s_{E_{2,256}}(4)\right), sgn\left(s_{E_{2,256}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{257}, a_{258}, sgn\left(s_{E_{2,257}}(4)\right), sgn\left(s_{E_{2,257}}(5.272)\right)\right] = \left[4.0044, 4.0044, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{258}, a_{259}, sgn\left(s_{E_{2,258}}(4)\right), sgn\left(s_{E_{2,258}}(5.272)\right)\right] = \left[4.0044, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{259}, a_{260}, sgn\left(s_{E_{2,259}}(4)\right), sgn\left(s_{E_{2,259}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{260}, a_{261}, sgn\left(s_{E_{2,260}}(4)\right), sgn\left(s_{E_{2,260}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{261}, a_{262}, sgn\left(s_{E_{2,261}}(4)\right), sgn\left(s_{E_{2,261}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{262}, a_{263}, sgn\left(s_{E_{2,262}}(4)\right), sgn\left(s_{E_{2,262}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{263}, a_{264}, sgn\left(s_{E_{2,263}}(4)\right), sgn\left(s_{E_{2,263}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{264}, a_{265}, sgn\left(s_{E_{2,264}}(4)\right), sgn\left(s_{E_{2,264}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{265}, a_{266}, sgn\left(s_{E_{2,265}}(4)\right), sgn\left(s_{E_{2,265}}(5.272)\right)\right] = \left[4.0045, 4.0045, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{266}, a_{267}, sgn\left(s_{E_{2,266}}(4)\right), sgn\left(s_{E_{2,266}}(5.272)\right)\right] = \left[4.0045, 4.0046, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{267}, a_{268}, sgn\left(s_{E_{2,267}}(4)\right), sgn\left(s_{E_{2,267}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{268}, a_{269}, sgn\left(s_{E_{2,268}}(4)\right), sgn\left(s_{E_{2,268}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{269}, a_{270}, sgn\left(s_{E_{2,269}}(4)\right), sgn\left(s_{E_{2,269}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{270}, a_{271}, sgn\left(s_{E_{2,270}}(4)\right), sgn\left(s_{E_{2,270}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{271}, a_{272}, sgn\left(s_{E_{2,271}}(4)\right), sgn\left(s_{E_{2,271}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{272}, a_{273}, sgn\left(s_{E_{2,272}}(4)\right), sgn\left(s_{E_{2,272}}(5.272)\right)\right] = \left[4.0046, 4.0046, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{273}, a_{274}, sgn\left(s_{E_{2,273}}(4)\right), sgn\left(s_{E_{2,273}}(5.272)\right)\right] = \left[4.0046, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{274}, a_{275}, sgn\left(s_{E_{2,274}}(4)\right), sgn\left(s_{E_{2,274}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{275}, a_{276}, sgn\left(s_{E_{2,275}}(4)\right), sgn\left(s_{E_{2,275}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{276}, a_{277}, sgn\left(s_{E_{2,276}}(4)\right), sgn\left(s_{E_{2,276}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{277}, a_{278}, sgn\left(s_{E_{2,277}}(4)\right), sgn\left(s_{E_{2,277}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{278}, a_{279}, sgn\left(s_{E_{2,278}}(4)\right), sgn\left(s_{E_{2,278}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{279}, a_{280}, sgn\left(s_{E_{2,279}}(4)\right), sgn\left(s_{E_{2,279}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{280}, a_{281}, sgn\left(s_{E_{2,280}}(4)\right), sgn\left(s_{E_{2,280}}(5.272)\right)\right] = \left[4.0047, 4.0047, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{281}, a_{282}, sgn\left(s_{E_{2,281}}(4)\right), sgn\left(s_{E_{2,281}}(5.272)\right)\right] = \left[4.0047, 4.0048, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{282}, a_{283}, sgn\left(s_{E_{2,282}}(4)\right), sgn\left(s_{E_{2,282}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{283}, a_{284}, sgn\left(s_{E_{2,283}}(4)\right), sgn\left(s_{E_{2,283}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{284}, a_{285}, sgn\left(s_{E_{2,284}}(4)\right), sgn\left(s_{E_{2,284}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{285}, a_{286}, sgn\left(s_{E_{2,285}}(4)\right), sgn\left(s_{E_{2,285}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{286}, a_{287}, sgn\left(s_{E_{2,286}}(4)\right), sgn\left(s_{E_{2,286}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{287}, a_{288}, sgn\left(s_{E_{2,287}}(4)\right), sgn\left(s_{E_{2,287}}(5.272)\right)\right] = \left[4.0048, 4.0048, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{288}, a_{289}, sgn\left(s_{E_{2,288}}(4)\right), sgn\left(s_{E_{2,288}}(5.272)\right)\right] = \left[4.0048, 4.0049, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{289}, a_{290}, sgn\left(s_{E_{2,289}}(4)\right), sgn\left(s_{E_{2,289}}(5.272)\right)\right] = \left[4.0049, 4.0049, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{290}, a_{291}, sgn\left(s_{E_{2,290}}(4)\right), sgn\left(s_{E_{2,290}}(5.272)\right)\right] = \left[4.0049, 4.0049, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{291}, a_{292}, sgn\left(s_{E_{2,291}}(4)\right), sgn\left(s_{E_{2,291}}(5.272)\right)\right] = \left[4.0049, 4.0049, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{292}, a_{293}, sgn\left(s_{E_{2,292}}(4)\right), sgn\left(s_{E_{2,292}}(5.272)\right)\right] = \left[4.0049, 4.0049, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{293}, a_{294}, sgn\left(s_{E_{2,293}}(4)\right), sgn\left(s_{E_{2,293}}(5.272)\right)\right] = \left[4.0049, 4.0049, \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right], \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right]\right]$$

$$\left[a_{294}, a_{295}, sgn\left(s_{E_{2,294}}(4)\right), sgn\left(s_{E_{2,294}}(5.272)\right)\right] = \left[4.0049, 4.0049, \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right], \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right]\right]$$

$$\left[a_{295}, a_{296}, sgn\left(s_{E_{2,295}}(4)\right), sgn\left(s_{E_{2,295}}(5.272)\right)\right] = \left[4.0049, 4.0049, \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right], \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right]\right]$$

$$\left[a_{296}, a_{297}, sgn\left(s_{E_{2,296}}(4)\right), sgn\left(s_{E_{2,296}}(5.272)\right)\right] = \left[4.0049, 4.0050, \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right], \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right]\right]$$

$$\left[a_{297}, a_{298}, sgn\left(s_{E_{2,297}}(4)\right), sgn\left(s_{E_{2,297}}(5.272)\right)\right] = \left[4.0050, 4.0050, \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right], \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right]\right]$$

$$\left[a_{298}, a_{299}, sgn\left(s_{E_{2,298}}(4)\right), sgn\left(s_{E_{2,298}}(5.272)\right)\right] = \left[4.0050, 4.0050, \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right], \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right]\right]$$

$$\left[a_{299}, a_{300}, sgn\left(s_{E_{2,299}}(4)\right), sgn\left(s_{E_{2,299}}(5.272)\right)\right] = \left[4.0050, 4.0050, \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right], \left[\begin{array}{cccccccc} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{array}\right]\right] \quad \textbf{(1)}$$

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