```
> # Set the parameters and functions
c :='c':
d :='d':
u :='u':
E3 := (9360000 c - 40478400) u^7 + (123624000 c^2 + 79477167 - 15600000 d^3 - 312878520 d) u^6
    + (12480000 c^5 + 418993800 c^3 + 476863002 c - 91411200 d^4 - 860506665 d^2) u^5
    + (23217600 c^6 + 621308436 c^4 + 1192157505 c^2 - 1040000 d^7 - 199260960 d^5
    - 1100550468 d^3) u^4 + (14018680 c^7 + 486042654 c^5 + 1589543340 c^3 - 155887303 d^6
    - 663541512 d^4) u^3 + (155487978 c^6 + 1192157505 c^4 - 43552080 d^7 - 215944200 d^5) u^2
    + (476863002 c^5 - 13976040 d^7 - 134854731 d^6) u + 79477167 c^6 - 70008120 d^7 :
print(Output);
# find Sturm's sequence``
 for j from 0 by 1 to 149 do
 c := 403/100 + (j+1)/150 · (404/100 - 403/100) :
 d := 403/100 + j/150 · (404/100 - 403/100) :
u :='u':
S := sturmseq(E3, u);
signnum := sturm(S, u, 4, 542/100);
 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_{3,i}}(4)]
     u := 4;
     X[i] := signum(S[i]);
 # Find sgn [s_{E_{3,i}}(5.42)]
     u := 542/100 :
     Y[i] := signum(S[i]);
   end do;
 # show the final results
 print(['a'[460 + j],'a'[461 + j], sgn(s['E'[3, 460 + j]](4)), sgn(s['E'[3, 460 + j]](5.42))]
     = [evalf(d, 5), evalf(c, 5), X, Y]) ;
end do:
```

Output

$$\left[a_{460}, a_{461}, sgn\left(s_{E_{3,460}}(4)\right), sgn\left(s_{E_{3,460}}(5.42)\right)\right] = [4.0300, 4.0301, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]]$$

$$\left[a_{461}, a_{462}, sgn\left(s_{E_{3,461}}(4)\right), sgn\left(s_{E_{3,461}}(5.42)\right)\right] = [4.0301, 4.0301, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]]$$

$$\left[a_{462}, a_{463}, sgn\left(s_{E_{3,462}}(4)\right), sgn\left(s_{E_{3,462}}(5.42)\right)\right] = [4.0301, 4.0302, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]]$$

$$\left[a_{463}, a_{464}, sgn\left(s_{E_{3,463}}(4)\right), sgn\left(s_{E_{3,463}}(5.42)\right)\right] = [4.0302, 4.0303, [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1], [-1\ 1\ 1\ 1\ -1\ -1\ 1\ -1]]$$

$$\left[a_{464}, a_{465}, sgn\left(s_{E_{3,464}}(4)\right), sgn\left(s_{E_{3,464}}(5.42)\right)\right] = \left[4.0303, 4.0303, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{465}, a_{466}, sgn\left(s_{E_{3,465}}(4)\right), sgn\left(s_{E_{3,465}}(5.42)\right)\right] = \left[4.0303, 4.0304, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{466}, a_{467}, sgn\left(s_{E_{3,466}}(4)\right), sgn\left(s_{E_{3,466}}(5.42)\right)\right] = \left[4.0304, 4.0305, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{467}, a_{468}, sgn\left(s_{E_{3,467}}(4)\right), sgn\left(s_{E_{3,467}}(5.42)\right)\right] = \left[4.0305, 4.0305, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{468}, a_{469}, sgn\left(s_{E_{3,468}}(4)\right), sgn\left(s_{E_{3,468}}(5.42)\right)\right] = \left[4.0305, 4.0306, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{469}, a_{470}, sgn\left(s_{E_{3,469}}(4)\right), sgn\left(s_{E_{3,469}}(5.42)\right)\right] = \left[4.0306, 4.0307, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{470}, a_{471}, sgn\left(s_{E_{3,470}}(4)\right), sgn\left(s_{E_{3,470}}(5.42)\right)\right] = \left[4.0307, 4.0307, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{471}, a_{472}, sgn\left(s_{E_{3,471}}(4)\right), sgn\left(s_{E_{3,471}}(5.42)\right)\right] = \left[4.0307, 4.0308, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{472}, a_{473}, sgn\left(s_{E_{3,472}}(4)\right), sgn\left(s_{E_{3,472}}(5.42)\right)\right] = \left[4.0308, 4.0309, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{473}, a_{474}, sgn\left(s_{E_{3,473}}(4)\right), sgn\left(s_{E_{3,473}}(5.42)\right)\right] = \left[4.0309, 4.0309, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{474}, a_{475}, sgn\left(s_{E_{3,474}}(4)\right), sgn\left(s_{E_{3,474}}(5.42)\right)\right] = \left[4.0309, 4.0310, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{475}, a_{476}, sgn\left(s_{E_{3,475}}(4)\right), sgn\left(s_{E_{3,475}}(5.42)\right)\right] = \left[4.0310, 4.0311, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{476}, a_{477}, sgn\left(s_{E_{3,476}}(4)\right), sgn\left(s_{E_{3,476}}(5.42)\right)\right] = \left[4.0311, 4.0311, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{477}, a_{478}, sgn\left(s_{E_{3,477}}(4)\right), sgn\left(s_{E_{3,477}}(5.42)\right)\right] = \left[4.0311, 4.0312, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{478}, a_{479}, sgn\left(s_{E_{3,478}}(4)\right), sgn\left(s_{E_{3,478}}(5.42)\right)\right] = \left[4.0312, 4.0313, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{479}, a_{480}, sgn\left(s_{E_{3,479}}(4)\right), sgn\left(s_{E_{3,479}}(5.42)\right)\right] = \left[4.0313, 4.0313, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{480}, a_{481}, sgn\left(s_{E_{3,480}}(4)\right), sgn\left(s_{E_{3,480}}(5.42)\right)\right] = \left[4.0313, 4.0314, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{481}, a_{482}, sgn\left(s_{E_{3,481}}(4)\right), sgn\left(s_{E_{3,481}}(5.42)\right)\right] = \left[4.0314, 4.0315, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{482}, a_{483}, sgn\left(s_{E_{3,482}}(4)\right), sgn\left(s_{E_{3,482}}(5.42)\right)\right] = \left[4.0315, 4.0315, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{483}, a_{484}, sgn\left(s_{E_{3,483}}(4)\right), sgn\left(s_{E_{3,483}}(5.42)\right)\right] = \left[4.0315, 4.0316, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{484}, a_{485}, sgn\left(s_{E_{3,484}}(4)\right), sgn\left(s_{E_{3,484}}(5.42)\right)\right] = \left[4.0316, 4.0317, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{485}, a_{486}, sgn\left(s_{E_{3,485}}(4)\right), sgn\left(s_{E_{3,485}}(5.42)\right)\right] = \left[4.0317, 4.0317, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{486}, a_{487}, sgn\left(s_{E_{3,486}}(4)\right), sgn\left(s_{E_{3,486}}(5.42)\right)\right] = \left[4.0317, 4.0318, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{487}, a_{488}, sgn\left(s_{E_{3,487}}(4)\right), sgn\left(s_{E_{3,487}}(5.42)\right)\right] = \left[4.0318, 4.0319, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{488}, a_{489}, sgn\left(s_{E_{3,488}}(4)\right), sgn\left(s_{E_{3,488}}(5.42)\right)\right] = \left[4.0319, 4.0319, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{489}, a_{490}, sgn\left(s_{E_{3,489}}(4)\right), sgn\left(s_{E_{3,489}}(5.42)\right)\right] = \left[4.0319, 4.0320, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{490}, a_{491}, sgn\left(s_{E_{3,490}}(4)\right), sgn\left(s_{E_{3,490}}(5.42)\right)\right] = \left[4.0320, 4.0321, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{491}, a_{492}, sgn\left(s_{E_{3,491}}(4)\right), sgn\left(s_{E_{3,491}}(5.42)\right)\right] = \left[4.0321, 4.0321, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{492}, a_{493}, sgn\left(s_{E_{3,492}}(4)\right), sgn\left(s_{E_{3,492}}(5.42)\right)\right] = \left[4.0321, 4.0322, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{493}, a_{494}, sgn\left(s_{E_{3,493}}(4)\right), sgn\left(s_{E_{3,493}}(5.42)\right)\right] = \left[4.0322, 4.0323, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{494}, a_{495}, sgn\left(s_{E_{3,494}}(4)\right), sgn\left(s_{E_{3,494}}(5.42)\right)\right] = \left[4.0323, 4.0323, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{495}, a_{496}, sgn\left(s_{E_{3,495}}(4)\right), sgn\left(s_{E_{3,495}}(5.42)\right)\right] = \left[4.0323, 4.0324, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{496}, a_{497}, sgn\left(s_{E_{3,496}}(4)\right), sgn\left(s_{E_{3,496}}(5.42)\right)\right] = \left[4.0324, 4.0325, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{497}, a_{498}, sgn\left(s_{E_{3,497}}(4)\right), sgn\left(s_{E_{3,497}}(5.42)\right)\right] = \left[4.0325, 4.0325, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{498}, a_{499}, sgn\left(s_{E_{3,498}}(4)\right), sgn\left(s_{E_{3,498}}(5.42)\right)\right] = \left[4.0325, 4.0326, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{499}, a_{500}, sgn\left(s_{E_{3,499}}(4)\right), sgn\left(s_{E_{3,499}}(5.42)\right)\right] = \left[4.0326, 4.0327, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{500}, a_{501}, sgn\left(s_{E_{3,500}}(4)\right), sgn\left(s_{E_{3,500}}(5.42)\right)\right] = \left[4.0327, 4.0327, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{501}, a_{502}, sgn\left(s_{E_{3,501}}(4)\right), sgn\left(s_{E_{3,501}}(5.42)\right)\right] = \left[4.0327, 4.0328, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{502}, a_{503}, sgn\left(s_{E_{3,502}}(4)\right), sgn\left(s_{E_{3,502}}(5.42)\right)\right] = \left[4.0328, 4.0329, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{503}, a_{504}, sgn\left(s_{E_{3,503}}(4)\right), sgn\left(s_{E_{3,503}}(5.42)\right)\right] = \left[4.0329, 4.0329, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{504}, a_{505}, sgn\left(s_{E_{3,504}}(4)\right), sgn\left(s_{E_{3,504}}(5.42)\right)\right] = \left[4.0329, 4.0330, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{505}, a_{506}, sgn\left(s_{E_{3,505}}(4)\right), sgn\left(s_{E_{3,505}}(5.42)\right)\right] = \left[4.0330, 4.0331, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{506}, a_{507}, sgn\left(s_{E_{3,506}}(4)\right), sgn\left(s_{E_{3,506}}(5.42)\right)\right] = \left[4.0331, 4.0331, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{507}, a_{508}, sgn\left(s_{E_{3,507}}(4)\right), sgn\left(s_{E_{3,507}}(5.42)\right)\right] = \left[4.0331, 4.0332, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{508}, a_{509}, sgn\left(s_{E_{3,508}}(4)\right), sgn\left(s_{E_{3,508}}(5.42)\right)\right] = \left[4.0332, 4.0333, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{509}, a_{510}, sgn\left(s_{E_{3,509}}(4)\right), sgn\left(s_{E_{3,509}}(5.42)\right)\right] = \left[4.0333, 4.0333, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{510}, a_{511}, sgn\left(s_{E_{3,510}}(4)\right), sgn\left(s_{E_{3,510}}(5.42)\right)\right] = \left[4.0333, 4.0334, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{511}, a_{512}, sgn\left(s_{E_{3,511}}(4)\right), sgn\left(s_{E_{3,511}}(5.42)\right)\right] = \left[4.0334, 4.0335, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{512}, a_{513}, sgn\left(s_{E_{3,512}}(4)\right), sgn\left(s_{E_{3,512}}(5.42)\right)\right] = \left[4.0335, 4.0335, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{513}, a_{514}, sgn\left(s_{E_{3,513}}(4)\right), sgn\left(s_{E_{3,513}}(5.42)\right)\right] = \left[4.0335, 4.0336, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{514}, a_{515}, sgn\left(s_{E_{3,514}}(4)\right), sgn\left(s_{E_{3,514}}(5.42)\right)\right] = \left[4.0336, 4.0337, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{515}, a_{516}, sgn\left(s_{E_{3,515}}(4)\right), sgn\left(s_{E_{3,515}}(5.42)\right)\right] = \left[4.0337, 4.0337, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{516}, a_{517}, sgn\left(s_{E_{3,516}}(4)\right), sgn\left(s_{E_{3,516}}(5.42)\right)\right] = \left[4.0337, 4.0338, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{517}, a_{518}, sgn\left(s_{E_{3,517}}(4)\right), sgn\left(s_{E_{3,517}}(5.42)\right)\right] = \left[4.0338, 4.0339, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{518}, a_{519}, sgn\left(s_{E_{3,518}}(4)\right), sgn\left(s_{E_{3,518}}(5.42)\right)\right] = \left[4.0339, 4.0339, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{519}, a_{520}, sgn\left(s_{E_{3,519}}(4)\right), sgn\left(s_{E_{3,519}}(5.42)\right)\right] = \left[4.0339, 4.0340, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{520}, a_{521}, sgn\left(s_{E_{3,520}}(4)\right), sgn\left(s_{E_{3,520}}(5.42)\right)\right] = \left[4.0340, 4.0341, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{521}, a_{522}, sgn\left(s_{E_{3,521}}(4)\right), sgn\left(s_{E_{3,521}}(5.42)\right)\right] = \left[4.0341, 4.0341, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{522}, a_{523}, sgn\left(s_{E_{3,522}}(4)\right), sgn\left(s_{E_{3,522}}(5.42)\right)\right] = \left[4.0341, 4.0342, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{523}, a_{524}, sgn\left(s_{E_{3,523}}(4)\right), sgn\left(s_{E_{3,523}}(5.42)\right)\right] = \left[4.0342, 4.0343, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{524}, a_{525}, sgn\left(s_{E_{3,524}}(4)\right), sgn\left(s_{E_{3,524}}(5.42)\right)\right] = \left[4.0343, 4.0343, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{525}, a_{526}, sgn\left(s_{E_{3,525}}(4)\right), sgn\left(s_{E_{3,525}}(5.42)\right)\right] = \left[4.0343, 4.0344, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{526}, a_{527}, sgn\left(s_{E_{3,526}}(4)\right), sgn\left(s_{E_{3,526}}(5.42)\right)\right] = \left[4.0344, 4.0345, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{527}, a_{528}, sgn\left(s_{E_{3,527}}(4)\right), sgn\left(s_{E_{3,527}}(5.42)\right)\right] = \left[4.0345, 4.0345, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{528}, a_{529}, sgn\left(s_{E_{3,528}}(4)\right), sgn\left(s_{E_{3,528}}(5.42)\right)\right] = \left[4.0345, 4.0346, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{529}, a_{530}, sgn\left(s_{E_{3,529}}(4)\right), sgn\left(s_{E_{3,529}}(5.42)\right)\right] = \left[4.0346, 4.0347, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{530}, a_{531}, sgn\left(s_{E_{3,530}}(4)\right), sgn\left(s_{E_{3,530}}(5.42)\right)\right] = \left[4.0347, 4.0347, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{531}, a_{532}, sgn\left(s_{E_{3,531}}(4)\right), sgn\left(s_{E_{3,531}}(5.42)\right)\right] = \left[4.0347, 4.0348, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{532}, a_{533}, sgn\left(s_{E_{3,532}}(4)\right), sgn\left(s_{E_{3,532}}(5.42)\right)\right] = \left[4.0348, 4.0349, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{533}, a_{534}, sgn\left(s_{E_{3,533}}(4)\right), sgn\left(s_{E_{3,533}}(5.42)\right)\right] = \left[4.0349, 4.0349, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{534}, a_{535}, sgn\left(s_{E_{3,534}}(4)\right), sgn\left(s_{E_{3,534}}(5.42)\right)\right] = \left[4.0349, 4.0350, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{535}, a_{536}, sgn\left(s_{E_{3,535}}(4)\right), sgn\left(s_{E_{3,535}}(5.42)\right)\right] = \left[4.0350, 4.0351, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{536}, a_{537}, sgn\left(s_{E_{3,536}}(4)\right), sgn\left(s_{E_{3,536}}(5.42)\right)\right] = \left[4.0351, 4.0351, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{537}, a_{538}, sgn\left(s_{E_{3,537}}(4)\right), sgn\left(s_{E_{3,537}}(5.42)\right)\right] = \left[4.0351, 4.0352, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{538}, a_{539}, sgn\left(s_{E_{3,538}}(4)\right), sgn\left(s_{E_{3,538}}(5.42)\right)\right] = \left[4.0352, 4.0353, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{539}, a_{540}, sgn\left(s_{E_{3,539}}(4)\right), sgn\left(s_{E_{3,539}}(5.42)\right)\right] = \left[4.0353, 4.0353, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{540}, a_{541}, sgn\left(s_{E_{3,540}}(4)\right), sgn\left(s_{E_{3,540}}(5.42)\right)\right] = \left[4.0353, 4.0354, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{541}, a_{542}, sgn\left(s_{E_{3,541}}(4)\right), sgn\left(s_{E_{3,541}}(5.42)\right)\right] = \left[4.0354, 4.0355, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{542}, a_{543}, sgn\left(s_{E_{3,542}}(4)\right), sgn\left(s_{E_{3,542}}(5.42)\right)\right] = \left[4.0355, 4.0355, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{543}, a_{544}, sgn\left(s_{E_{3,543}}(4)\right), sgn\left(s_{E_{3,543}}(5.42)\right)\right] = \left[4.0355, 4.0356, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{544}, a_{545}, sgn\left(s_{E_{3,544}}(4)\right), sgn\left(s_{E_{3,544}}(5.42)\right)\right] = \left[4.0356, 4.0357, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{545}, a_{546}, sgn\left(s_{E_{3,545}}(4)\right), sgn\left(s_{E_{3,545}}(5.42)\right)\right] = \left[4.0357, 4.0357, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{546}, a_{547}, sgn\left(s_{E_{3,546}}(4)\right), sgn\left(s_{E_{3,546}}(5.42)\right)\right] = \left[4.0357, 4.0358, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{547}, a_{548}, sgn\left(s_{E_{3,547}}(4)\right), sgn\left(s_{E_{3,547}}(5.42)\right)\right] = \left[4.0358, 4.0359, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{548}, a_{549}, sgn\left(s_{E_{3,548}}(4)\right), sgn\left(s_{E_{3,548}}(5.42)\right)\right] = \left[4.0359, 4.0359, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{549}, a_{550}, sgn\left(s_{E_{3,549}}(4)\right), sgn\left(s_{E_{3,549}}(5.42)\right)\right] = \left[4.0359, 4.0360, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{550}, a_{551}, sgn\left(s_{E_{3,550}}(4)\right), sgn\left(s_{E_{3,550}}(5.42)\right)\right] = \left[4.0360, 4.0361, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{551}, a_{552}, sgn\left(s_{E_{3,551}}(4)\right), sgn\left(s_{E_{3,551}}(5.42)\right)\right] = \left[4.0361, 4.0361, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{552}, a_{553}, sgn\left(s_{E_{3,552}}(4)\right), sgn\left(s_{E_{3,552}}(5.42)\right)\right] = \left[4.0361, 4.0362, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{553}, a_{554}, sgn\left(s_{E_{3,553}}(4)\right), sgn\left(s_{E_{3,553}}(5.42)\right)\right] = \left[4.0362, 4.0363, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{554}, a_{555}, sgn\left(s_{E_{3,554}}(4)\right), sgn\left(s_{E_{3,554}}(5.42)\right)\right] = \left[4.0363, 4.0363, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{555}, a_{556}, sgn\left(s_{E_{3,555}}(4)\right), sgn\left(s_{E_{3,555}}(5.42)\right)\right] = \left[4.0363, 4.0364, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{556}, a_{557}, sgn\left(s_{E_{3,556}}(4)\right), sgn\left(s_{E_{3,556}}(5.42)\right)\right] = \left[4.0364, 4.0365, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{557}, a_{558}, sgn\left(s_{E_{3,557}}(4)\right), sgn\left(s_{E_{3,557}}(5.42)\right)\right] = \left[4.0365, 4.0365, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{558}, a_{559}, sgn\left(s_{E_{3,558}}(4)\right), sgn\left(s_{E_{3,558}}(5.42)\right)\right] = \left[4.0365, 4.0366, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{559}, a_{560}, sgn\left(s_{E_{3,559}}(4)\right), sgn\left(s_{E_{3,559}}(5.42)\right)\right] = \left[4.0366, 4.0367, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{560}, a_{561}, sgn\left(s_{E_{3,560}}(4)\right), sgn\left(s_{E_{3,560}}(5.42)\right)\right] = \left[4.0367, 4.0367, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{561}, a_{562}, sgn\left(s_{E_{3,561}}(4)\right), sgn\left(s_{E_{3,561}}(5.42)\right)\right] = \left[4.0367, 4.0368, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{562}, a_{563}, sgn\left(s_{E_{3,562}}(4)\right), sgn\left(s_{E_{3,562}}(5.42)\right)\right] = \left[4.0368, 4.0369, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{563}, a_{564}, sgn\left(s_{E_{3,563}}(4)\right), sgn\left(s_{E_{3,563}}(5.42)\right)\right] = \left[4.0369, 4.0369, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{564}, a_{565}, sgn\left(s_{E_{3,564}}(4)\right), sgn\left(s_{E_{3,564}}(5.42)\right)\right] = \left[4.0369, 4.0370, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{565}, a_{566}, sgn\left(s_{E_{3,565}}(4)\right), sgn\left(s_{E_{3,565}}(5.42)\right)\right] = \left[4.0370, 4.0371, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{566}, a_{567}, sgn\left(s_{E_{3,566}}(4)\right), sgn\left(s_{E_{3,566}}(5.42)\right)\right] = \left[4.0371, 4.0371, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{567}, a_{568}, sgn\left(s_{E_{3,567}}(4)\right), sgn\left(s_{E_{3,567}}(5.42)\right)\right] = \left[4.0371, 4.0372, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{568}, a_{569}, sgn\left(s_{E_{3,568}}(4)\right), sgn\left(s_{E_{3,568}}(5.42)\right)\right] = \left[4.0372, 4.0373, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{569}, a_{570}, sgn\left(s_{E_{3,569}}(4)\right), sgn\left(s_{E_{3,569}}(5.42)\right)\right] = \left[4.0373, 4.0373, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{570}, a_{571}, sgn\left(s_{E_{3,570}}(4)\right), sgn\left(s_{E_{3,570}}(5.42)\right)\right] = \left[4.0373, 4.0374, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{571}, a_{572}, sgn\left(s_{E_{3,571}}(4)\right), sgn\left(s_{E_{3,571}}(5.42)\right)\right] = \left[4.0374, 4.0375, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{572}, a_{573}, sgn\left(s_{E_{3,572}}(4)\right), sgn\left(s_{E_{3,572}}(5.42)\right)\right] = \left[4.0375, 4.0375, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{573}, a_{574}, sgn\left(s_{E_{3,573}}(4)\right), sgn\left(s_{E_{3,573}}(5.42)\right)\right] = \left[4.0375, 4.0376, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{574}, a_{575}, sgn\left(s_{E_{3,574}}(4)\right), sgn\left(s_{E_{3,574}}(5.42)\right)\right] = \left[4.0376, 4.0377, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{575}, a_{576}, sgn\left(s_{E_{3,575}}(4)\right), sgn\left(s_{E_{3,575}}(5.42)\right)\right] = \left[4.0377, 4.0377, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{576}, a_{577}, sgn\left(s_{E_{3,576}}(4)\right), sgn\left(s_{E_{3,576}}(5.42)\right)\right] = \left[4.0377, 4.0378, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{577}, a_{578}, sgn\left(s_{E_{3,577}}(4)\right), sgn\left(s_{E_{3,577}}(5.42)\right)\right] = \left[4.0378, 4.0379, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{578}, a_{579}, sgn\left(s_{E_{3,578}}(4)\right), sgn\left(s_{E_{3,578}}(5.42)\right)\right] = \left[4.0379, 4.0379, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{579}, a_{580}, sgn\left(s_{E_{3,579}}(4)\right), sgn\left(s_{E_{3,579}}(5.42)\right)\right] = \left[4.0379, 4.0380, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{580}, a_{581}, sgn\left(s_{E_{3,580}}(4)\right), sgn\left(s_{E_{3,580}}(5.42)\right)\right] = \left[4.0380, 4.0381, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{581}, a_{582}, sgn\left(s_{E_{3,581}}(4)\right), sgn\left(s_{E_{3,581}}(5.42)\right)\right] = \left[4.0381, 4.0381, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{582}, a_{583}, sgn\left(s_{E_{3,582}}(4)\right), sgn\left(s_{E_{3,582}}(5.42)\right)\right] = \left[4.0381, 4.0382, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{583}, a_{584}, sgn\left(s_{E_{3,583}}(4)\right), sgn\left(s_{E_{3,583}}(5.42)\right)\right] = \left[4.0382, 4.0383, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{584}, a_{585}, sgn\left(s_{E_{3,584}}(4)\right), sgn\left(s_{E_{3,584}}(5.42)\right)\right] = \left[4.0383, 4.0383, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{585}, a_{586}, sgn\left(s_{E_{3,585}}(4)\right), sgn\left(s_{E_{3,585}}(5.42)\right)\right] = \left[4.0383, 4.0384, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{586}, a_{587}, sgn\left(s_{E_{3,586}}(4)\right), sgn\left(s_{E_{3,586}}(5.42)\right)\right] = \left[4.0384, 4.0385, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{587}, a_{588}, sgn\left(s_{E_{3,587}}(4)\right), sgn\left(s_{E_{3,587}}(5.42)\right)\right] = \left[4.0385, 4.0385, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{588}, a_{589}, sgn\left(s_{E_{3,588}}(4)\right), sgn\left(s_{E_{3,588}}(5.42)\right)\right] = \left[4.0385, 4.0386, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{589}, a_{590}, sgn\left(s_{E_{3,589}}(4)\right), sgn\left(s_{E_{3,589}}(5.42)\right)\right] = \left[4.0386, 4.0387, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{590}, a_{591}, sgn\left(s_{E_{3,590}}(4)\right), sgn\left(s_{E_{3,590}}(5.42)\right)\right] = \left[4.0387, 4.0387, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{591}, a_{592}, sgn\left(s_{E_{3,591}}(4)\right), sgn\left(s_{E_{3,591}}(5.42)\right)\right] = \left[4.0387, 4.0388, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}, \begin{bmatrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{bmatrix}\right]$$

$$\left[a_{592}, a_{593}, sgn\left(s_{E_{3,592}}(4)\right), sgn\left(s_{E_{3,592}}(5.42)\right)\right] = \left[4.0388, 4.0389, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{593}, a_{594}, sgn\left(s_{E_{3,593}}(4)\right), sgn\left(s_{E_{3,593}}(5.42)\right)\right] = \left[4.0389, 4.0389, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{594}, a_{595}, sgn\left(s_{E_{3,594}}(4)\right), sgn\left(s_{E_{3,594}}(5.42)\right)\right] = \left[4.0389, 4.0390, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{595}, a_{596}, sgn\left(s_{E_{3,595}}(4)\right), sgn\left(s_{E_{3,595}}(5.42)\right)\right] = \left[4.0390, 4.0391, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{596}, a_{597}, sgn\left(s_{E_{3,596}}(4)\right), sgn\left(s_{E_{3,596}}(5.42)\right)\right] = \left[4.0391, 4.0391, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{597}, a_{598}, sgn\left(s_{E_{3,597}}(4)\right), sgn\left(s_{E_{3,597}}(5.42)\right)\right] = \left[4.0391, 4.0392, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{598}, a_{599}, sgn\left(s_{E_{3,598}}(4)\right), sgn\left(s_{E_{3,598}}(5.42)\right)\right] = \left[4.0392, 4.0393, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{599}, a_{600}, sgn\left(s_{E_{3,599}}(4)\right), sgn\left(s_{E_{3,599}}(5.42)\right)\right] = \left[4.0393, 4.0393, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{600}, a_{601}, sgn\left(s_{E_{3,600}}(4)\right), sgn\left(s_{E_{3,600}}(5.42)\right)\right] = \left[4.0393, 4.0394, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{601}, a_{602}, sgn\left(s_{E_{3,601}}(4)\right), sgn\left(s_{E_{3,601}}(5.42)\right)\right] = \left[4.0394, 4.0395, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{602}, a_{603}, sgn\left(s_{E_{3,602}}(4)\right), sgn\left(s_{E_{3,602}}(5.42)\right)\right] = \left[4.0395, 4.0395, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{603}, a_{604}, sgn\left(s_{E_{3,603}}(4)\right), sgn\left(s_{E_{3,603}}(5.42)\right)\right] = \left[4.0395, 4.0396, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{604}, a_{605}, sgn\left(s_{E_{3,604}}(4)\right), sgn\left(s_{E_{3,604}}(5.42)\right)\right] = \left[4.0396, 4.0397, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{605}, a_{606}, sgn\left(s_{E_{3,605}}(4)\right), sgn\left(s_{E_{3,605}}(5.42)\right)\right] = \left[4.0397, 4.0397, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{606}, a_{607}, sgn\left(s_{E_{3,606}}(4)\right), sgn\left(s_{E_{3,606}}(5.42)\right)\right] = \left[4.0397, 4.0398, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{607}, a_{608}, sgn\left(s_{E_{3,607}}(4)\right), sgn\left(s_{E_{3,607}}(5.42)\right)\right] = \left[4.0398, 4.0399, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{608}, a_{609}, sgn\left(s_{E_{3,608}}(4)\right), sgn\left(s_{E_{3,608}}(5.42)\right)\right] = \left[4.0399, 4.0399, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right]$$

$$\left[a_{609}, a_{610}, sgn\left(s_{E_{3,609}}(4)\right), sgn\left(s_{E_{3,609}}(5.42)\right)\right] = \left[4.0399, 4.0400, \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right], \left[\begin{matrix} -1 & 1 & 1 & 1 & -1 & -1 & 1 & -1 \end{matrix}\right]\right] \quad \textbf{(1)}$$

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