```
11
         3 -0.100000 0.000000
         2 -0.100000 0.000000
   12
         5 -0.200000 0.000000
   13
         8 -0.100000 0.000000
   14
         7 -0.100000 0.000000
   15
        10 -0.200000 0.000000
   16
         ===== PiLib Variable =======
hop.hop_mat(2)(:,:,5), @a-sp, hop_mat between site-2 and its 5-th neighbor
          1, SIZE=[ 9, 3], TYPE=SPARSE
ORDER=
   1
        2
                     3
   16
            0.000000 0.000000
            0.100000 \ 0.000000
   11
         1
           -0.173205 0.000000
   12
   12
         5 -0.100000 0.000000
   13
         2
           0.100000 0.000000
   14
         6 0.100000 0.000000
   15
         9 -0.173205 0.000000
        10 -0.100000 0.000000
   15
   16
         7
            0.100000 0.000000
          ==== PiLib Variable =====
hop.hop_mat(2)(:,:,6), @a-sp, hop_mat between site-2 and its 6-th neighbor
ORDER= 1, SIZE=[ 7, 3], TYPE=SPARSE
   1
        2
                     3
        16
   16
            0.000000 \ 0.000000
   11
            0.173205 \ 0.000000
   11
         5 -0.100000 0.000000
   13
           0.100000 0.000000
            0.173205 0.000000
   14
         9
   14
        10 -0.100000 0.000000
```

16

16 0.000000 0.000000

 $0.100000 \ 0.000000$

16