========== PiLib Variable ==========
lat.recip_vec, @full, the reciprocal lattice vectors
ORDER= 0, SIZE=[2, 2], TYPE=REAL

1	2
-2.094395	3.627599
2.094395	3.627599

========== PiLib Variable ==========
hop.hop_mat(1)(:,:,3), @a-sp, hop_mat between site-1 and its 3-th neighbor
ORDER= 0, SIZE=[2, 3], TYPE=SPARSE

1	2	3	
2	2	0.000000	0.000000
1	2	1.000000	0.000000

========== PiLib Variable ==========
ban.k_vec(:,:,1) , @full, eigenvectros at k_1=[0, 0, 0]
ORDER= -1, SIZE=[2, 2], TYPE=COMPLEX

1		2	
-7.071068	0.000000	7.071068	0.000000
7.071068	0.000000	7.071068	0.000000

========== PiLib Variable ==========
scc.DM_out, @t-sp, the output density matrix
ORDER= 0, SIZE=[3, 3], TYPE=SPARSE

1	2	3	
2	2	0.000000	0.000000
1	1	0.500000	0.000000
2	2	0.500000	0.000000

========== PiLib Variable ==========
hop.state_info_text, @full, [state_label, site, n, l, SubOrb_text]
ORDER= 0, SIZE=[2, 5], TYPE=STRING

1 # 1 # 1 # 1 # 5 P z,d #
2 # 2 # 1 # 1 # 5 P z,d #