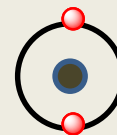
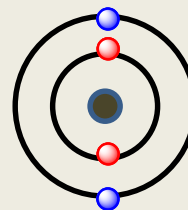


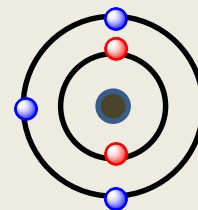
	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f
K	1										
L	2										
M	3										
N	4										
O	5										







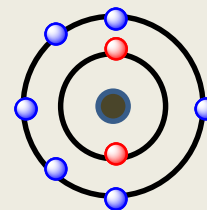
	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f
K	1														
L	2														
M	3														
N	4														
O	5														



	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f
K	1										
L	2										
M	3										
N	4										
O	5										

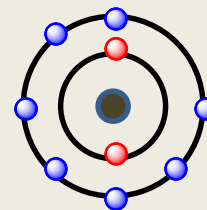






	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f
K	1										
L	2										
M	3										
N	4										
O	5										

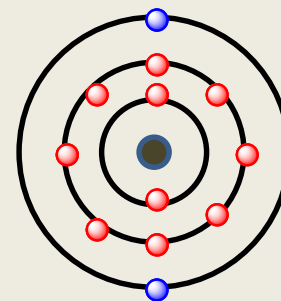




		主量子数 ( $n$ )							
K	1	1s							
L	2	2s	2p						
M	3	3s	3p	3d					
N	4	4s	4p	4d	4f				
O	5	5s	5p	5d	5f				

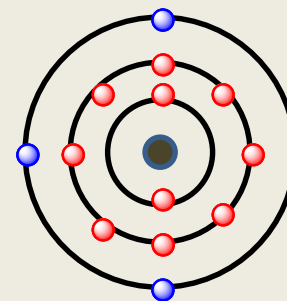






	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f
K	1										
L	2										
M	3										
N	4										
O	5										

# 13Al



主量子数

( $n$ )

K

1

1s



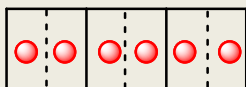
L

2

2s



2p



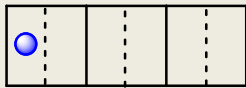
M

3

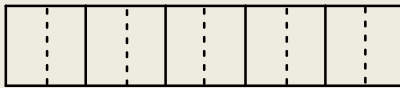
3s



3p



3d



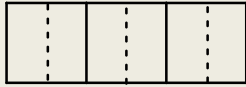
N

4

4s



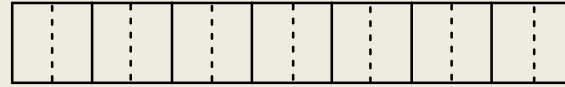
4p



4d



4f



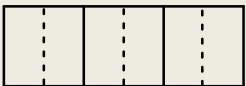
O

5

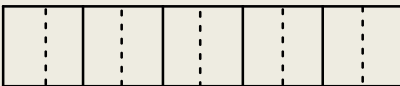
5s



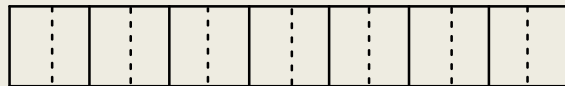
5p



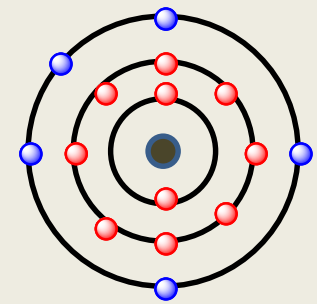
5d



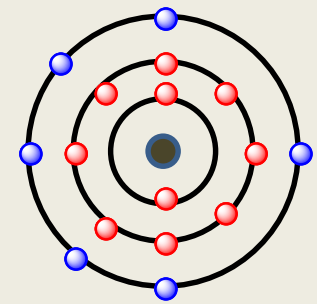
5f







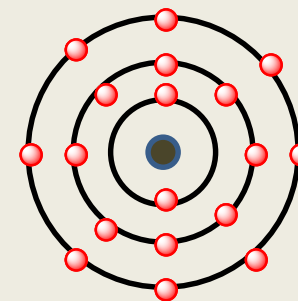
	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f
K	1										
L	2										
M	3										
N	4										
O	5										



	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f
K	1										
L	2										
M	3										
N	4										
O	5										

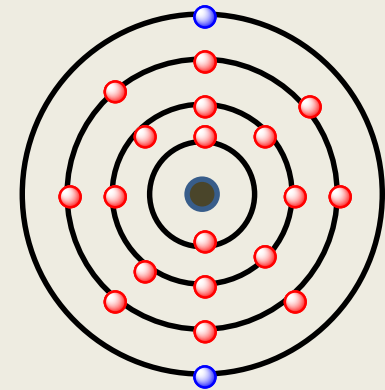






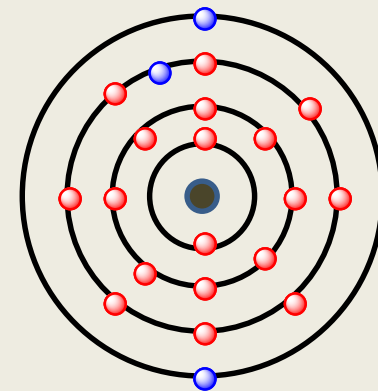
	主量子数 ( $n$ )	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f
K	1														
L	2														
M	3														
N	4														
O	5														





	主量子数 ( <i>n</i> )	1 <i>s</i>	2 <i>s</i>	2 <i>p</i>	3 <i>s</i>	3 <i>p</i>	3 <i>d</i>	4 <i>s</i>	4 <i>p</i>	4 <i>d</i>	4 <i>f</i>
<b>K</b>	1										
<b>L</b>	2										
<b>M</b>	3										
<b>N</b>	4										
<b>O</b>	5										

# 21 Sc



主量子数

( $n$ )

K

1

1s



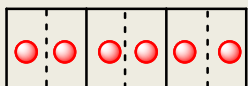
L

2

2s



2p



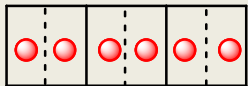
M

3

3s



3p



3d



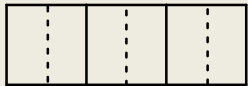
N

4

4s



4p



4d



4f



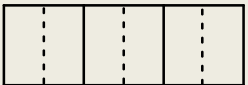
O

5

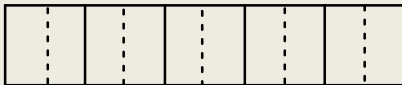
5s



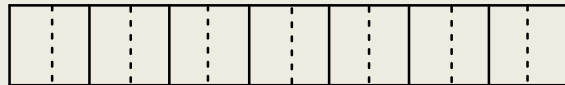
5p



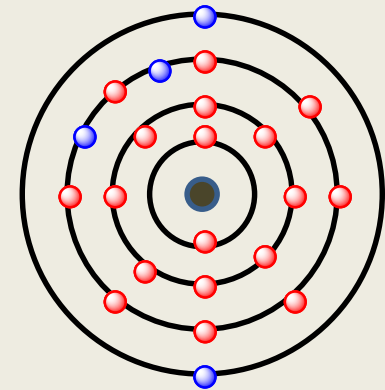
5d



5f



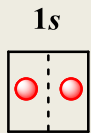
# 22 Ti



主量子数  
( $n$ )

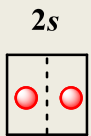
K

1

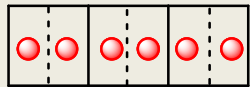


L

2

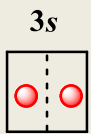


2p

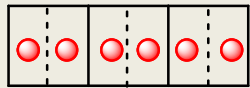


M

3



3p

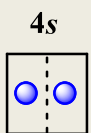


3d



N

4



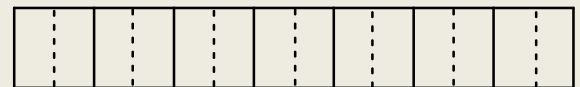
4p



4d

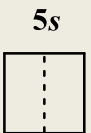


4f

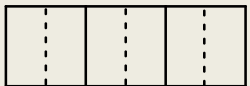


O

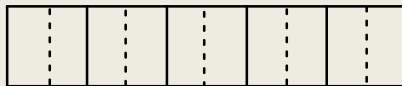
5



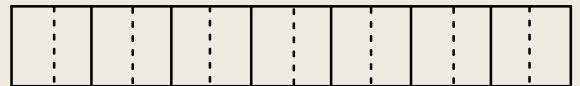
5p



5d



5f

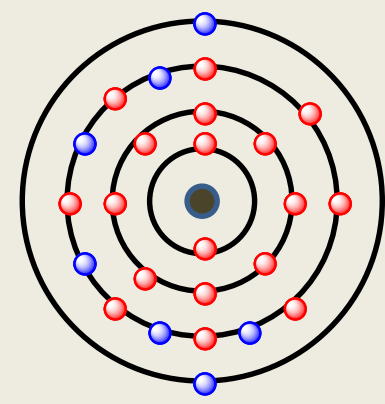








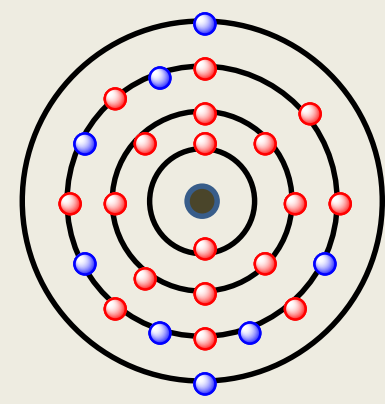
# 25Mn



主量子数  
(*n*)

K	1	1s									
L	2	2s	2p								
M	3	3s	3p	3d							
N	4	4s	4p	4d	4f						
O	5	5s	5p	5d	5f						

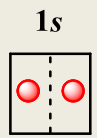
# 26Fe



主量子数  
( $n$ )

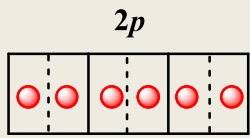
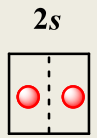
K

1



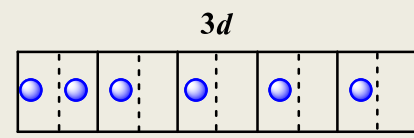
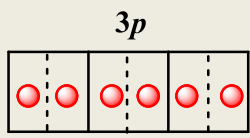
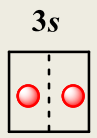
L

2



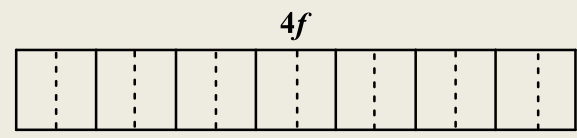
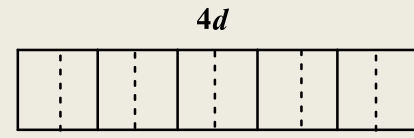
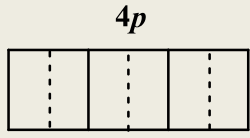
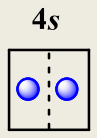
M

3



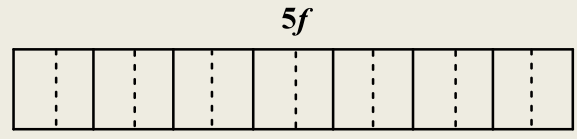
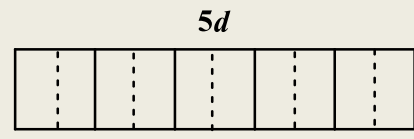
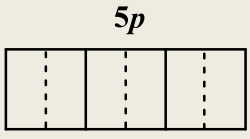
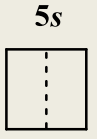
N

4

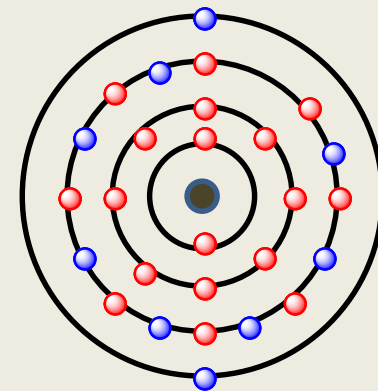


O

5



# 27Co

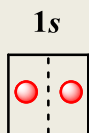


主量子数

( $n$ )

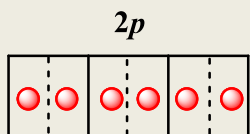
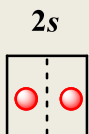
K

1



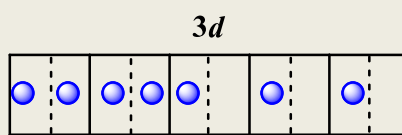
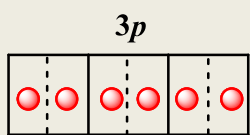
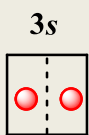
L

2



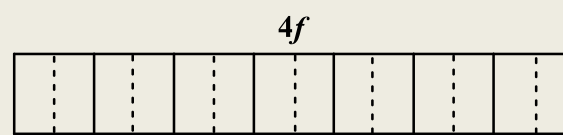
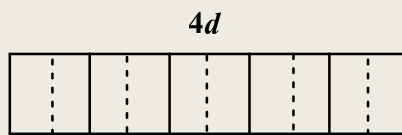
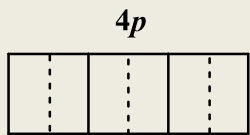
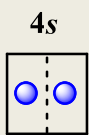
M

3



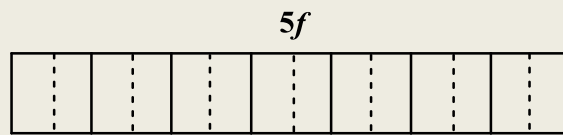
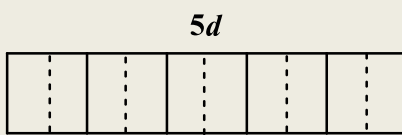
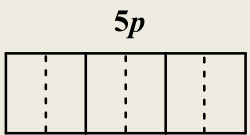
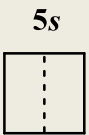
N

4

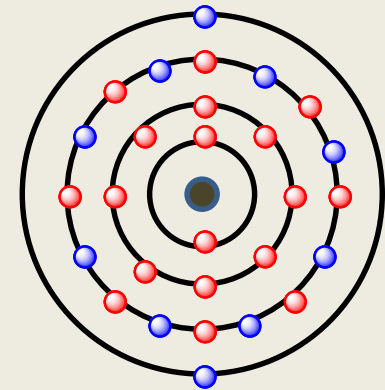


O

5



# 28Ni

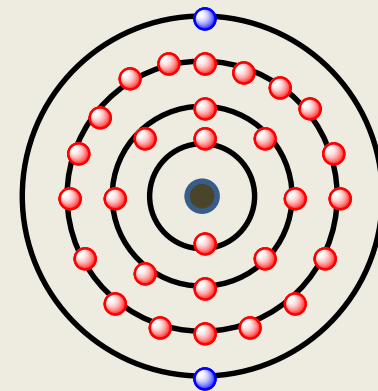


主量子数  
( $n$ )

K	1	1s							
L	2	2s	2p						
M	3	3s	3p	3d					
N	4	4s	4p	4d	4f				
O	5	5s	5p	5d	5f				



# 30Zn



主量子数

( $n$ )

K

1

1s



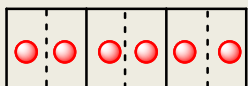
L

2

2s



2p



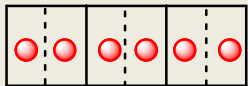
M

3

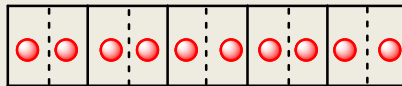
3s



3p



3d



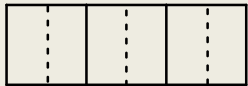
N

4

4s



4p



4d



4f



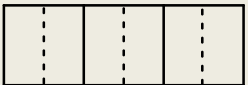
O

5

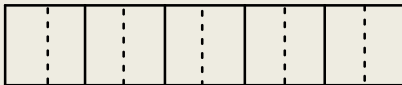
5s



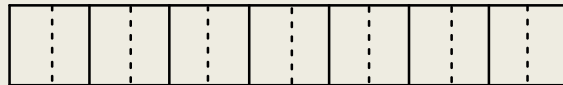
5p



5d



5f

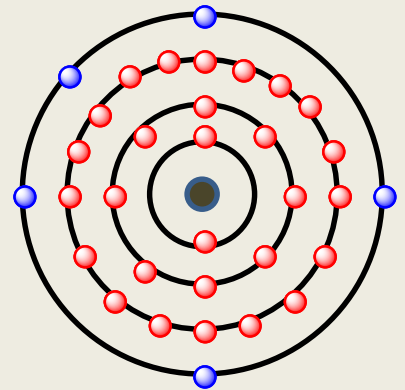
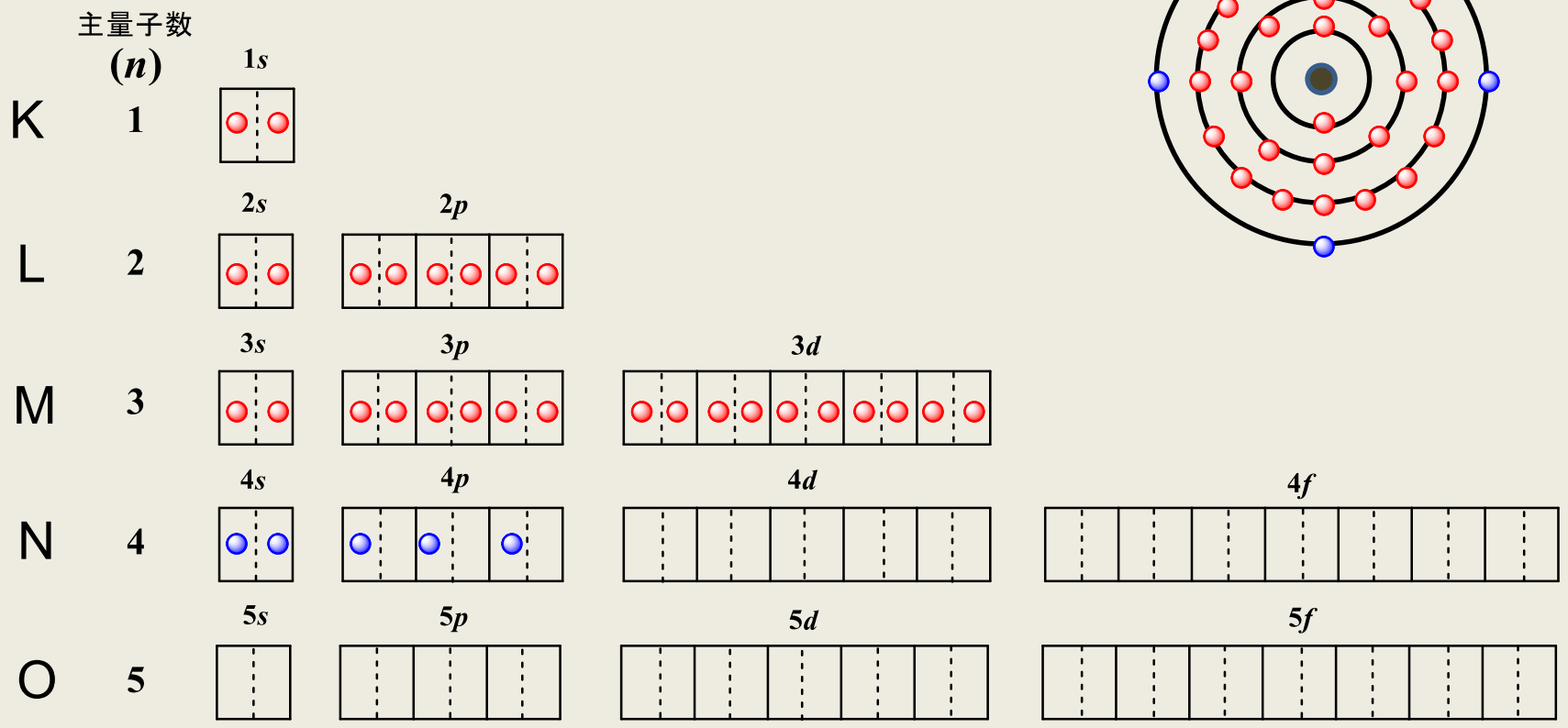




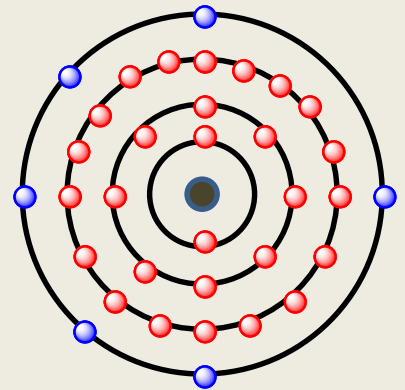




# 33As



# 34Se



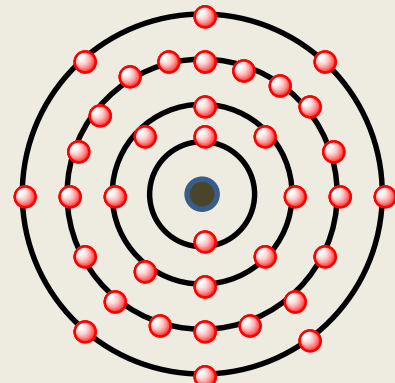
主量子数  
( $n$ )

K	1	1s									
L	2	2s	2p								
M	3	3s	3p	3d							
N	4	4s	4p	4d			4f				
O	5	5s	5p	5d			5f				



# 36 Kr

•



主量子数

(*n*)

K

1

1s



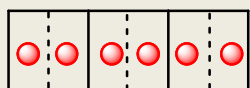
L

2

2s



2p



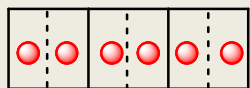
M

3

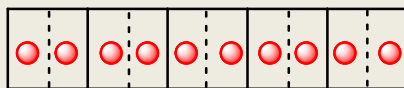
3s



3p



3d



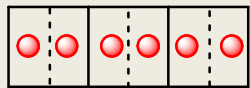
N

4

4s



4p



4d



4f



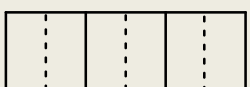
O

5

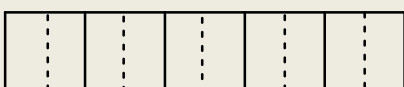
5s



5p



5d



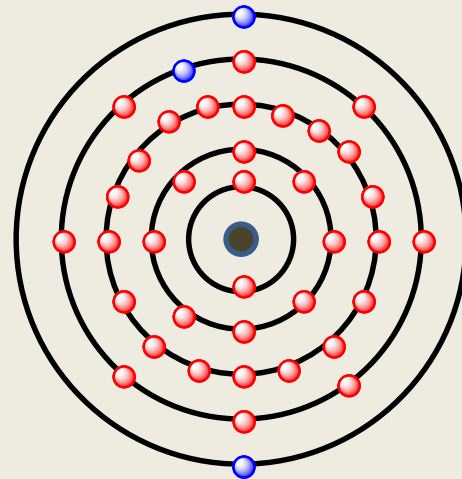
5f







# 39 Y

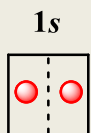


主量子数

(*n*)

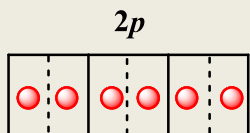
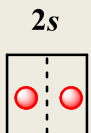
K

1



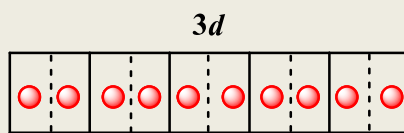
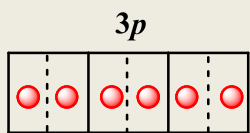
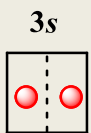
L

2



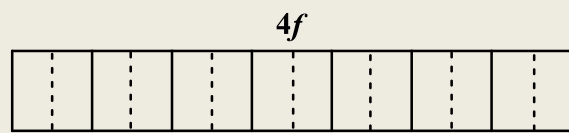
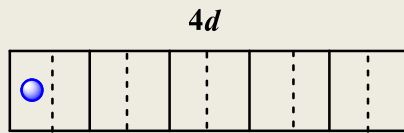
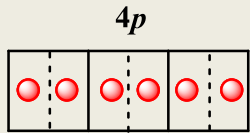
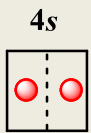
M

3



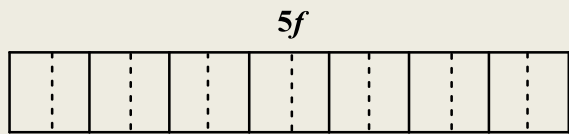
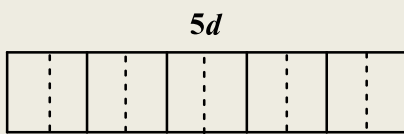
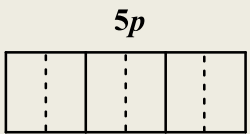
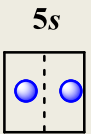
N

4

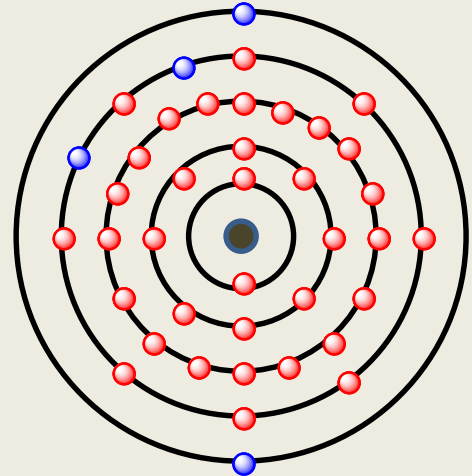


O

5



# 40Zr

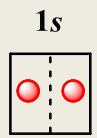


主量子数

(*n*)

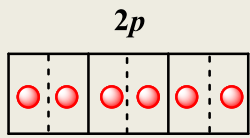
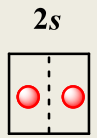
K

1



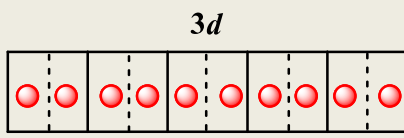
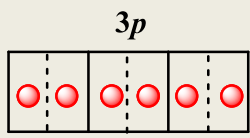
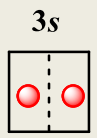
L

2



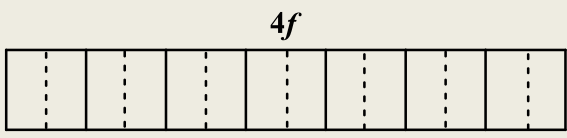
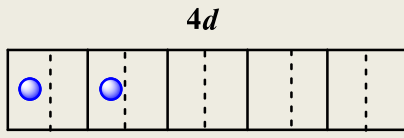
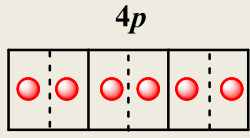
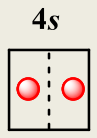
M

3



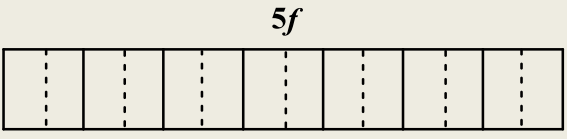
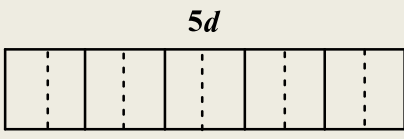
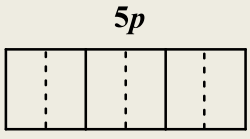
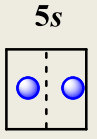
N

4



O

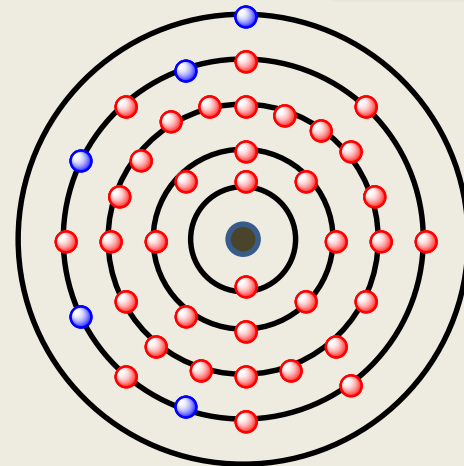
5





# 41 Nb

例外

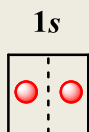


主量子数

( $n$ )

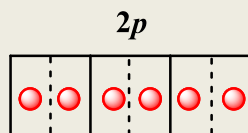
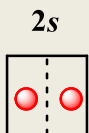
K

1



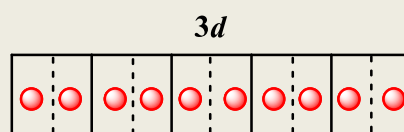
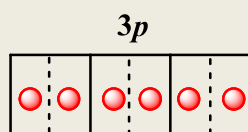
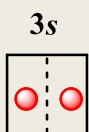
L

2



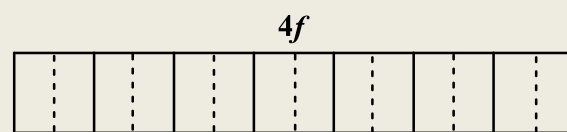
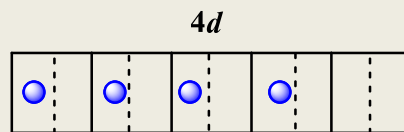
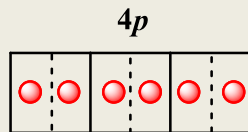
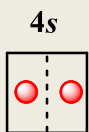
M

3



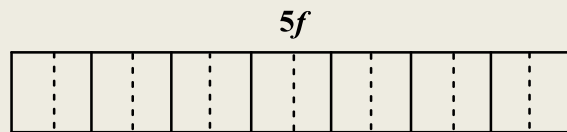
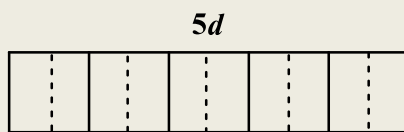
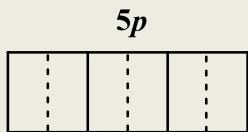
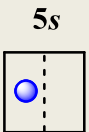
N

4



O

5

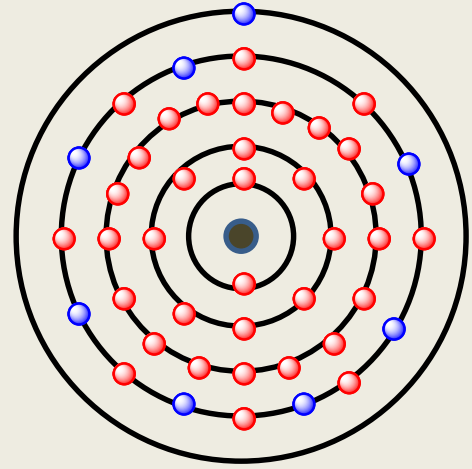






# 44Ru

例外

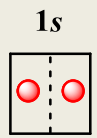


主量子数

(*n*)

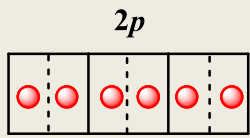
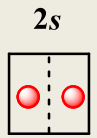
K

1



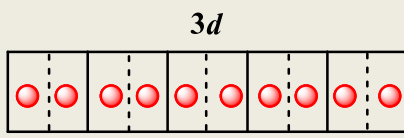
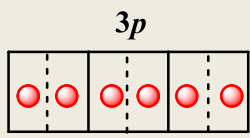
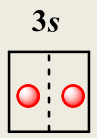
L

2



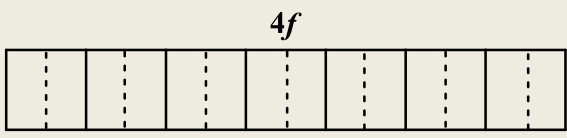
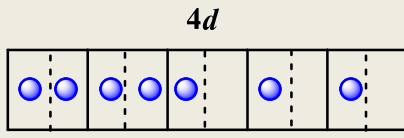
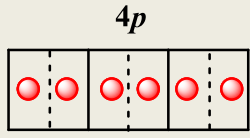
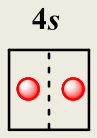
M

3



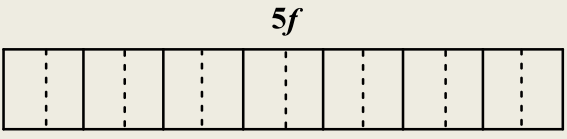
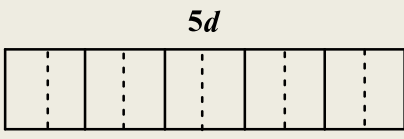
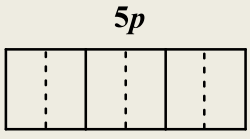
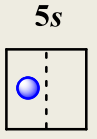
N

4



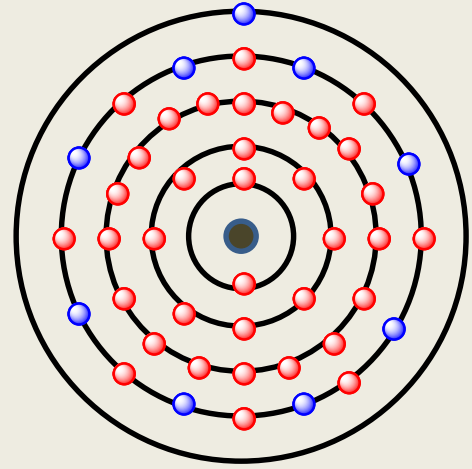
O

5



# 45Rh

例外



主量子数

(*n*)

K

1

1s



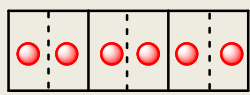
L

2

2s



2p



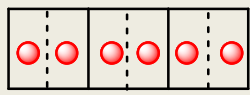
M

3

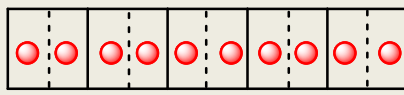
3s



3p



3d



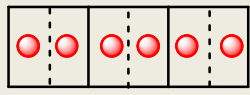
N

4

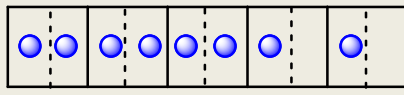
4s



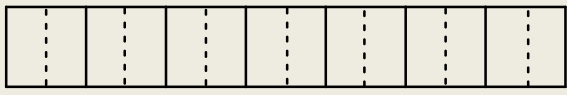
4p



4d



4f



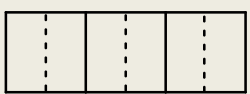
O

5

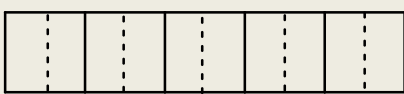
5s



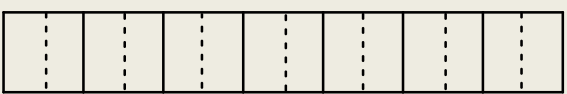
5p



5d

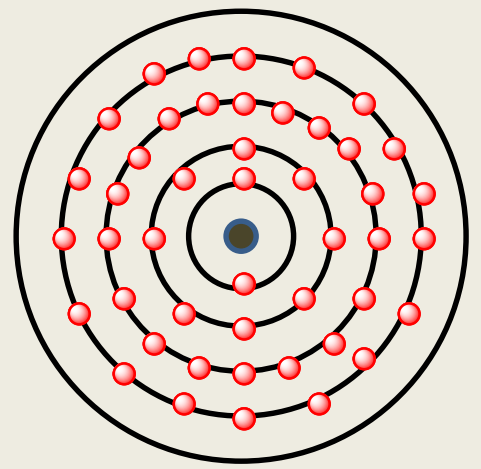


5f



# 46Pd

例外

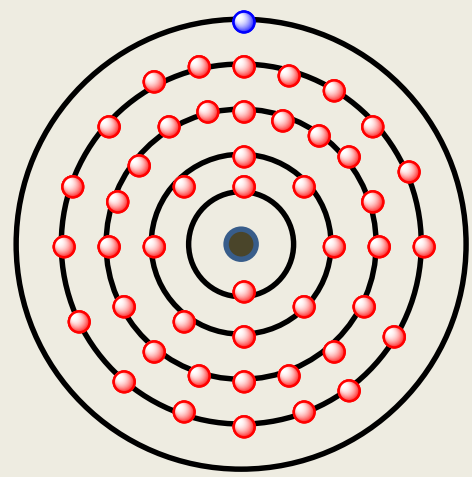


主量子数  
(*n*)

K	1	1s																		
L	2	2s	2p																	
M	3	3s	3p	3d																
N	4	4s	4p	4d	4f															
O	5	5s	5p	5d	5f															

閉殻

# 47Ag



主量子数

(*n*)

K

1

1s



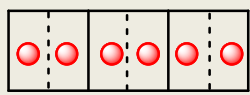
L

2

2s



2p



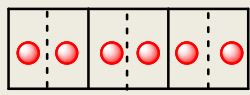
M

3

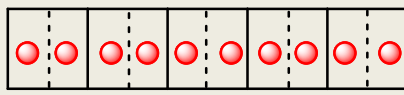
3s



3p



3d



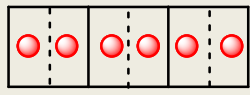
N

4

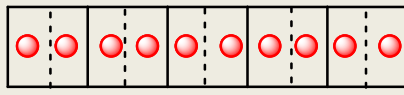
4s



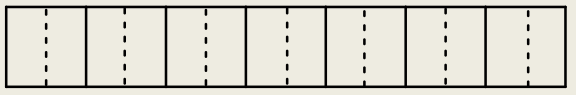
4p



4d



4f



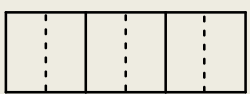
O

5

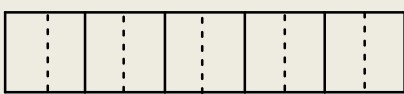
5s



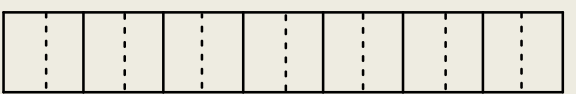
5p



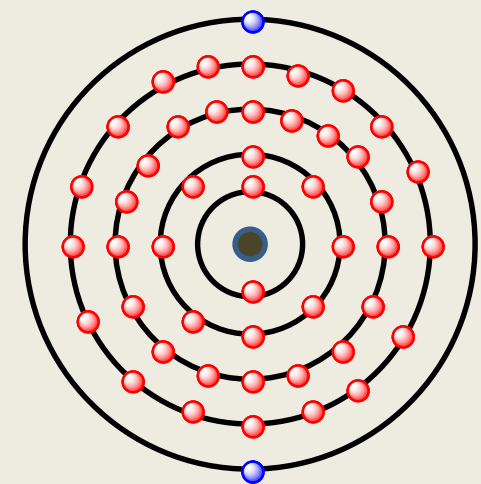
5d



5f



# 48Cd



主量子数  
( $n$ )

K	1	1s									
L	2	2s	2p								
M	3	3s	3p	3d							
N	4	4s	4p	4d			4f				
O	5	5s	5p	5d			5f				