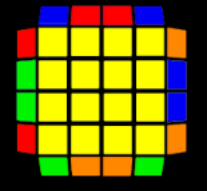
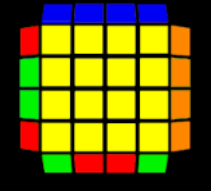
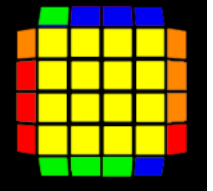
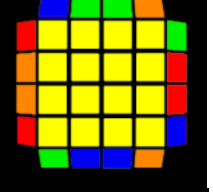
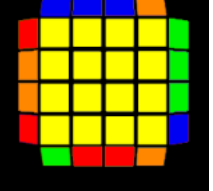
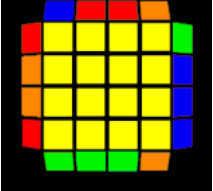
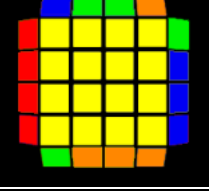
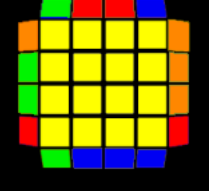
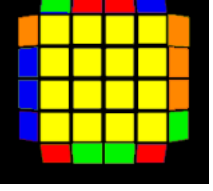


4x4-PLL

注: [*]=ML2 U' 2 ML2 UW' 2 ML2 UW' 2或类似四阶PLL特殊公式

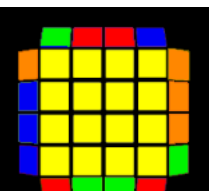
1		R U' R U R U R U' R' U [*] R2	2	
3		R' U' R U' R U R U' R' U R U R2 U' R' [*]/MR2 Uw2 MR2 MB2 U' MR2 y MR2 U MR2 Uw2 y' MR2	4	
5		L U' L' U[*] U L U L'	6	
7		F R U' R' U' R U R' F' [*] U2 R U R' U' R' F R F'	8	
9		R U R' U' R' F R2 U' R' U' R U R' F' U [*]	10	
11		R2 UW' 2 U R2 U F2 UW' 2 U F2 U' R2 UW' 2 F2 R2	12	
13		R U R' F' R U R' U' R' F R U d [*] y R U' R'	14	
				



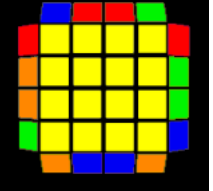
15



16



18



17



19



z U2 R' U2 RW2 B2 R U2 UW2
R' U2 R2 B2 UW' 2 R U2

[*] U+J-perm

R' U2 R U2 R' F R U R' U'
R' F' RW2 U2 MR2 UW2 MR2
UW2 观察要点:F面角块和R
面棱块同色

$R^2 U R U R' U' R' U' R'$
 $U' [*] R'$

$R' U' R U' R U R U' R' U$
 $R U R^2 U' R' U [*]/MR^2 y$
 $Uw^2 MR^2 U' MR^2 y' MR^2$
 $U MB^2 MR^2 Uw^2 MR^2$

$F R U' R' U' R U R' F' U$
 $[*] U R U R' U' R' F R$
 F'

$R U R' U' R' F R^2 U' R'$
 $U' R U R' F' [*]$

$R U R' U [*] R' F R^2 U'$
 $R' U' R U R' F$

$R U R' F' R U R' U' R' F$
 $R^2 U' R' U [*]$

$z U^2 R U' ^2 RW' ^2 F^2 R'$
 $U^2 RW' ^2 R U^2 R^2 F^2 RW$
 $R' U^2$

[*] U' +J-perm公式

L U2 L' U2 L F' L' U' L U
L F LW' 2 U2 ML' 2 UW' 2
ML' 2 UW' 2 观察要点:F
面角块和L面棱块同色