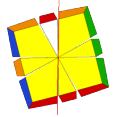




## Lin PLL+1

Page 1

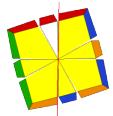


**Adj-BL**

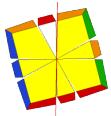


**Adj-FL**

(3,2)/(1,0)/(0,-3)/(-1,0)/(-3,0)/(1,0)/(0,3)/(-1,0)/(0,-2)    (-5,3) /(2,-1)/(-2,1)/(-1,-1)/(3,0)/(-2,1)/(5,-3)



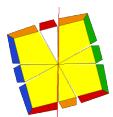
**Adj-FR**



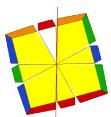
**Adj-BR**

(-2,0)/(0,3)/(3,0)/(-1,-1)/(-2,1)/(0,-3)/(-4,0)

(-3,2)/(1,0)/(0,-3)/(-1,0)/(3,0)/(1,0)/(0,3)/(-1,0)/(0,-2)



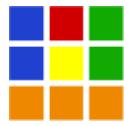
**Opp-F**



**Opp-LR**

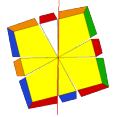
/(3,0)/(1,3)/(0,-1)/(0,1)/(-1,0)/(0,-3)/(-3,0)/

(0,-1)/(-3,0)/(4,1)/(-1,-1)/(-3,0)/(3,0)/(0,1)

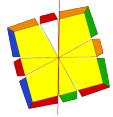


## Lin PLL+1

Page 2

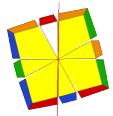


**Cw-Swirl**

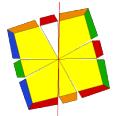


**Ccw-Swirl**

$(-3,-1)/(0,1)/(-3,0)/(0,-1)/(-2,1)/(-1,0)/(-3,0)/(1,0)/(-1,0)$   
 $(4,0)/(-1,0)/(3,0)/(1,0)/(2,-1)/(0,1)/(3,0)/(0,-1)/(0,1)$   
 $(0)$

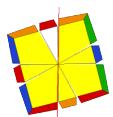


**W-BL**

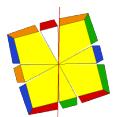


**W-FL**

$(6,-1)/(4,1)/(2,-1)/(4,1)/(3,0)/(2,-1)/(-3,1)$   
 $(3,-1)/(-3,0)/(4,1)/(3,0)/(-4,-1)/(-3,0)/(3,0)/(4,1)/(5,0)$



**W-FR**



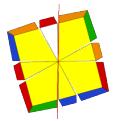
**W-BR**

$(4,0)/(-4,-1)/(-3,0)/(3,0)/(4,1)/(-3,0)/(-4,-1)/(3,0)/(0,1)$   
 $(-5,0)/(-1,-4)/(-2,1)/(-1,-4)/(-3,0)/(1,-2)/(2,0)$   
 $)$

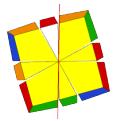


## Lin PLL+1

Page 3



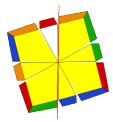
**Blocks-F+**



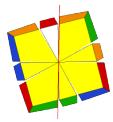
**Blocks-F-**

(-2,0)/(2,-1)/(0,-3)/(3,0)/(-3,0)/(-2,4)/(-1,0)

(3,-1)/(1,-2)/(0,3)/(0,-3)/(3,0)/(-4,2)/(0,1)



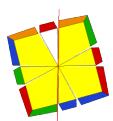
**Blocks-R+**



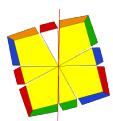
**Blocks-L-**

(1,0)/(-4,-4)/(3,0)/(0,-3)/(0,3)/(1,4)/(-4,-1)/(0,3)/(3,1)

(0,-1)/(4,4)/(-3,0)/(3,0)/(0,-3)/(-4,-1)/(4,1)/(-3,0)/(-4,0)



**Square-C**



**Square-D**

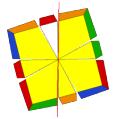
(-5,-3)/(0,3)/(3,0)/(3,0)/(-4,-1)/(1,4)/(0,3)/(-4,-3)

(4,3)/(0,-3)/(-1,-4)/(4,1)/(-3,0)/(-3,0)/(0,-3)/(5,3)

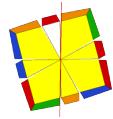


## Lin PLL+1

Page 4



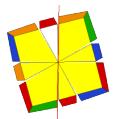
**Opp Blocks**



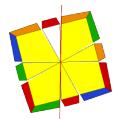
**Opp Blocks**

(1,3)/(-4,2)/(1,-2)/(-1,-4)/(4,1)/(0,-3)/(-4,-1)/(3,1)

(6,2)/(-2,4)/(2,-1)/(1,4)/(-1,-4)/(0,3)/(1,4)/(-4,0)



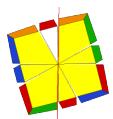
**Opp-Opp Blocks**



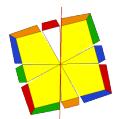
**Opp-Opp Blocks**

(3,-1)/(3,0)/(1,4)/(2,-1)/(4,1)/(-3,0)/(-1,2)/(0,-3)/(-3,-5)

(-2,0)/(0,-3)/(-1,-4)/(1,-2)/(-4,-1)/(0,3)/(1,-2)/(3,0)/(2,6)



**Fake T-perm**



**Opp-Fake T-perm**

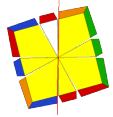
(3,-1)/(-3,0)/(-2,1)/(-1,-1)/(0,3)/(0,-3)/(0,3)/(-3,0)/(3,-2)

(3,-1)/(1,-2)/(0,3)/(-1,-4)/(4,1)/(-4,-1)/(1,1)/(-1,2)/(0,1)

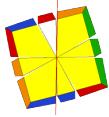


## Lin PLL+1

Page 5

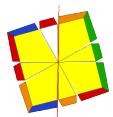


**2c-swap**

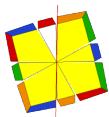


**Line + Square**

$(4,0)/(-1,-1)/(3,0)/(-3,0)/(0,3)/(-3,0)/(3,0)/(4,-2)/(-4,0)$   
)

 $(0,-1)/(1,4)/(-1,-4)/(1,4)/(-4,-1)/(4,-2)/(-4,0)$ 

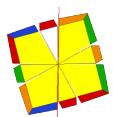
**Line + Block**



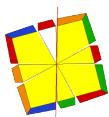
**2c + H-perm**

$(0,-1)/(0,-3)/(1,4)/(-1,-4)/(4,1)/(-4,2)/(3,1)$

$(-3,-1)/(1,1)/(3,0)/(-4,-1)/(-3,3)/(1,-2)/(-1,2)/(-3,0)/(6,$   
-2)



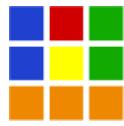
**Fake Rb-perm**



**Fake Gb-perm (almost)**

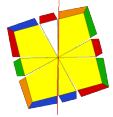
$(3,-4)/(0,3)/(3,0)/(4,1)/(-4,-1)/(1,4)/(-1,2)/(0,-2)$

$(6,-4)/(3,0)/(1,-2)/(-1,2)/(3,-3)/(3,0)/(0,-5)$

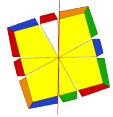


## Lin PLL+1

Page 6



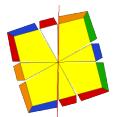
**Fake Gc-perm**



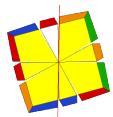
**Fake Gd-perm**

(1,0)/(0,3)/(-4,-1)/(4,-2)/(-3,0)/(0,3)/(-1,-3)

(1,3)/(0,-3)/(3,0)/(-4,2)/(4,1)/(0,-3)/(-1,0)



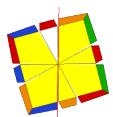
**2 Blocks + opp line**



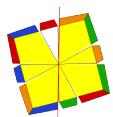
**2 Blocks + adj line**

(6,-1)/(4,1)/(0,3)/(-4,-1)/(1,4)/(-1,2)/(4,-2)/(2,-3)

(-3,-1)/(4,-2)/(-3,0)/(0,3)/(0,-3)/(-1,2)/(0,1)



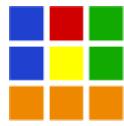
**1-opp (a)**



**1-opp (b)**

(1,0)/(0,-3)/(-1,2)/(-3,0)/(4,1)/(2,-1)/(1,4)/(3,0)/(-1,6)

(-2,3)/(-4,-1)/(1,-2)/(-1,-4)/(1,-2)/(3,3)/(-1,2)/(-2,1)/(5,-3)

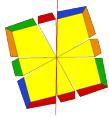


## Lin PLL+1

Page 7

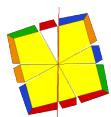


**2c-swap**

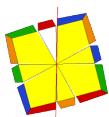


**Line + Block-R**

(-2,0)/(2,-1)/(-3,3)/(3,0)/(0,-3)/(0,3)/(0,-3)/(1,1)/(2,0)    (-5,0)/(2,-4)/(4,1)/(-4,-1)/(1,4)/(-3,0)/(-4,0)



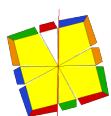
**Line + Block-L**



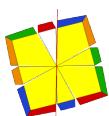
**2c + H-perm**

(6,-1)/(4,-2)/(-4,-1)/(1,4)/(-1,-4)/(0,3)/(3,1)

(6,-1)/(1,-2)/(-1,-1)/(4,1)/(-4,-1)/(1,4)/(0,-3)/(-1,2)/(3,1)



**2 Blocks+**



**2 Blocks-**

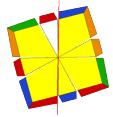
(3,-1)/(0,-3)/(4,1)/(-1,-4)/(0,-3)/(0,3)/(-3,0)/(4,4)/(5,0)

(-2,0)/(3,0)/(-4,-1)/(4,1)/(0,3)/(-3,0)/(3,0)/(-4,-4)/(6,1)

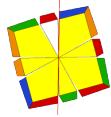


## Lin PLL+1

Page 8



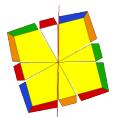
**Fake Ga-perm**



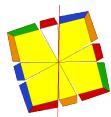
**Fake Gc-perm**

(3,-1)/(0,-3)/(-3,3)/(-2,1)/(-1,2)/(0,-3)/(3,-2)

(-2,0)/(3,0)/(3,-3)/(-1,2)/(1,-2)/(3,0)/(-4,3)



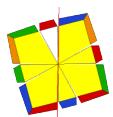
**Opp line + block on**



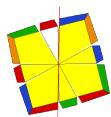
**Opp line + block on**

(-2,3)/(-1,2)/(1,4)/(-4,-1)/(4,1)/(3,0)/(0,3)/(5,3)

(-3,2)/(1,-2)/(-1,-4)/(4,1)/(-4,-1)/(-3,0)/(0,-3)/(0,4)



**Opp-Opp Blocks +**



**Opp-Opp Blocks -**

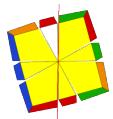
(4,0)/(-1,2)/(-2,1)/(0,-3)/(-1,2)/(-2,1)/(2,-1)/(3,0)/(0,-2)

(0,2)/(-3,0)/(-2,1)/(2,-1)/(1,-2)/(0,3)/(2,-1)/(1,-2)/(-4,0)

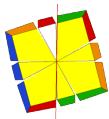


## Lin PLL+1

Page 9

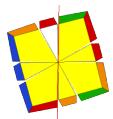


**2c-swap**

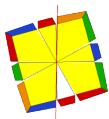


**Line + Square**

$(-3,-1)/(1,1)/(-3,0)/(0,3)/(0,-3)/(0,3)/(-3,0)/(2,-4)/(3,1)$   
 $)$        $(1,0)/(-4,-1)/(1,4)/(-4,-1)/(4,1)/(2,-4)/(3,1)$



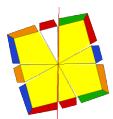
**Line + Block**



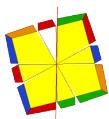
**2c + H-perm**

$(1,0)/(3,0)/(-1,-4)/(4,1)/(-4,-1)/(-2,4)/(-4,0)$   
 $)$

$(6,2)/(3,0)/(1,-2)/(-1,2)/(3,-3)/(4,1)/(-3,0)/(-1,-1)/(3,1)$   
 $)$



**Fake Ra-perm**



**Fake Ga-perm**

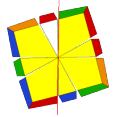
$(4,-3)/(0,-3)/(-3,0)/(-4,-1)/(4,1)/(-1,-4)/(1,-2)/(5,-3)$

$(0,-1)/(-3,0)/(4,1)/(2,-4)/(3,0)/(-3,0)/(0,4)$



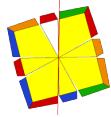
## Lin PLL+1

Page 10



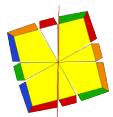
**Fake Gb-perm**

(6,2)/(0,3)/(-3,0)/(4,-2)/(-4,-1)/(0,3)/(6,-5)



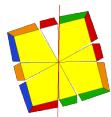
**Fake Gd-perm (almost)**

(1,-3)/(-3,0)/(-1,2)/(1,-2)/(-3,3)/(-3,0)/(5,0)



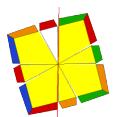
**2 Blocks + opp line**

(-5,0)/(-1,-4)/(0,-3)/(1,4)/(-1,-4)/(-2,1)/(2,-4)/(3,-2)



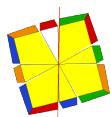
**2 Blocks + adj line**

(4,0)/(2,-4)/(3,0)/(-3,0)/(0,3)/(-2,1)/(-1,0)



**1-opp (a)**

(0,-1)/(3,0)/(1,-2)/(0,3)/(-4,-1)/(1,-2)/(-1,-4)/(0,-3)/(0,-5)



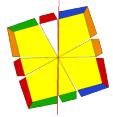
**1-opp (b)**

(1,3)/(2,-1)/(1,-2)/(-3,-3)/(-1,2)/(1,4)/(-1,2)/(4,1)/(-4,-3)

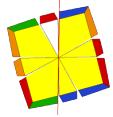


## Lin PLL+1

Page 11

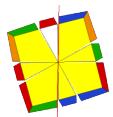


**Diag-Swap (a)**

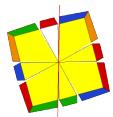


**Diag-Swap (b)**

$(4,0)/(-3,-3)/(-3,0)/(-3,0)/(3,0)/(-1,2)/(4,1)/(-4,-1)/(-3,$   
 $1)$        $(-3,-1)/(3,3)/(3,0)/(0,3)/(-3,0)/(-2,1)/(-4,-1)/(1,4)/(2,0$   
 $)$



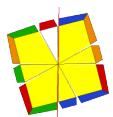
**Blocks-F+**



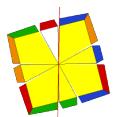
**Blocks-F-**

$(3,-1)/(-3,-2)/(-3,0)/(3,3)/(0,-3)/(3,2)/(-3,1)$

$(-2,0)/(2,3)/(0,-3)/(3,3)/(-3,0)/(-2,-3)/(2,0)$



**Blocks-R+**



**Blocks-L-**

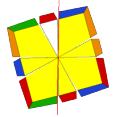
$(4,0)/(0,3)/(-4,-1)/(1,-2)/(3,3)/(-1,-4)/(4,1)/(-4,-1)/(3,$   
 $1)$

$(-3,-1)/(-3,0)/(4,1)/(2,-1)/(-3,-3)/(4,1)/(-4,-1)/(1,4)/(-4$   
 $,0)$

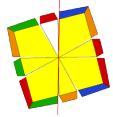


## Lin PLL+1

Page 12

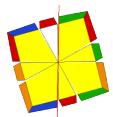


**Block-R+**

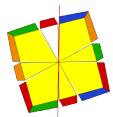


**Block-R-**

(-5,3)/(2,-1)/(-2,1)/(-1,2)/(0,-3)/(0,3)/(-3,0)/(1,-2)/(-4,  
-3) (0,2)/(1,-2)/(-3,0)/(0,3)/(0,-3)/(-1,2)/(-2,1)/(2,-1)/(-3,-  
2)

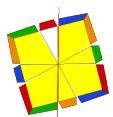


**Block-L+**

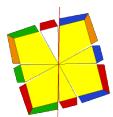


**Block-L-**

(-5,3)/(-1,2)/(3,0)/(0,-3)/(0,3)/(1,-2)/(2,-1)/(-2,1)/(2,-  
3) (0,2)/(-2,1)/(2,-1)/(1,-2)/(0,3)/(0,-3)/(3,0)/(-1,2)/(-3,-  
2)



**No Blocks (a)**



**No Blocks (b)**

(4,0)/(-4,0)/(0,3)/(-3,0)/(0,-2)/(0,2)/(3,0)/(0,-3)/(4,0)/(  
2,0) (1,0)/(-3,0)/(2,-4)/(-2,1)/(2,-1)/(3,0)/(1,-2)/(-1,2)/(0,-  
5)

