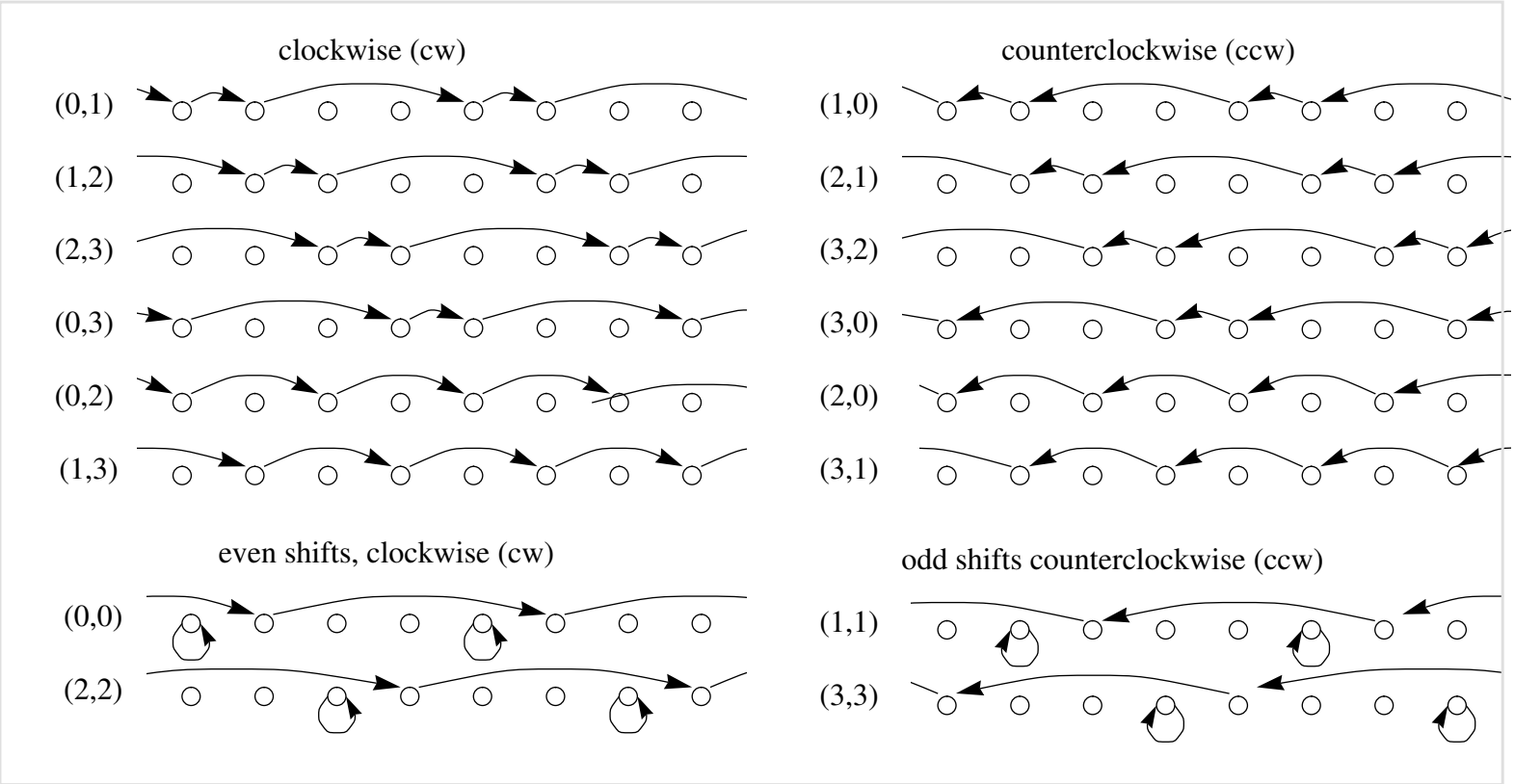
clockwise (cw)
(0,1)
(1,2)
(2,3)
(0,3)
(0,2)
(1,3)
counterclockwise (ccw)
(1,0)
(2,1)
(3,2)
(3,0)
(2,0)
(3,1)
even shifts, clockwise (cw)
(0,0)
(2,2)
odd shifts counterclockwise (ccw)
(1,1)
(3,3)