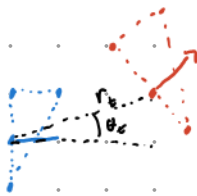


formation

$$(x_i, y_i) = (r_i \cos \theta_i + x_0, r_i \sin \theta_i + y_0)$$

$$(x_2, y_2) = (r_2 \cos \theta_2 + x_1, r_2 \sin \theta_2 + y_1)$$



$$\begin{aligned} (x_i(n+1), y_i(n+1)) &= (r_i \cos \theta_i + r_{\theta}(n) \cos \theta_{\theta}(n) + x_0(n), r_i \sin \theta_i + r_{\theta}(n) \sin \theta_{\theta}(n) + y_0(n)) \\ &= (r_i \cos(\theta_i + \gamma(n)) + r_{\theta}(n) \cos \theta_{\theta}(n) + x_0(n), r_i \sin(\theta_i + \gamma(n)) + r_{\theta}(n) \sin \theta_{\theta}(n) + y_0(n)) \end{aligned}$$

$\uparrow$   
 $\gamma(n)$

