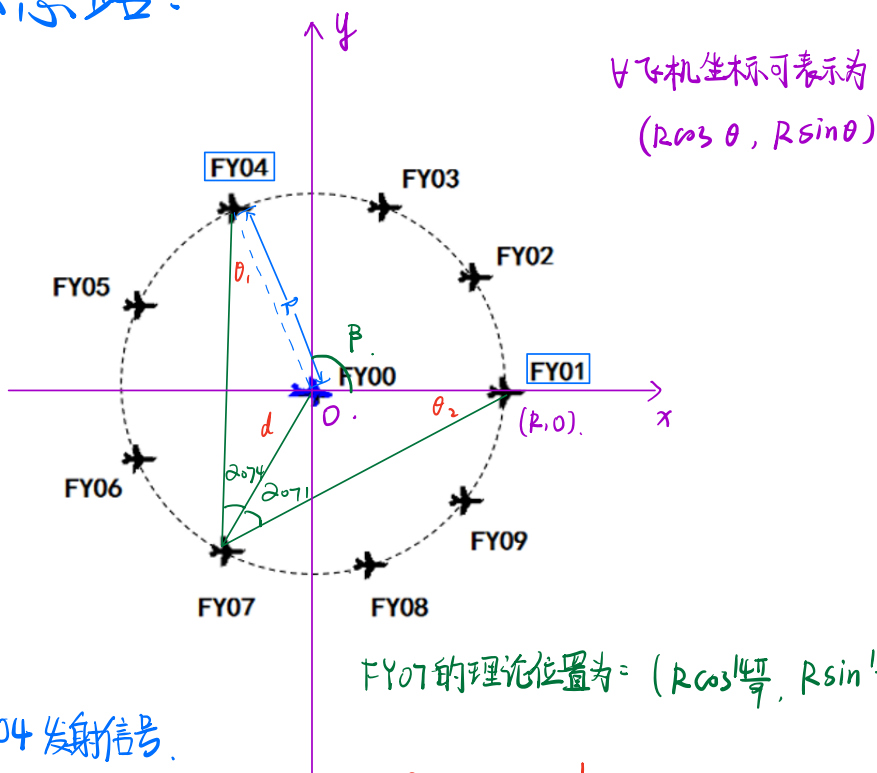


基本思路:



00, 01, 04 发射信号.

07 接收到的位置信息为:  
2071 2074.

设未知量  $\theta_1, \theta_2, d$

由正弦定理  $\implies$   
( $\beta = 2\pi \times \frac{3}{9}$ )

$$\frac{R}{\sin 2074} = \frac{d}{\sin \theta_1}$$

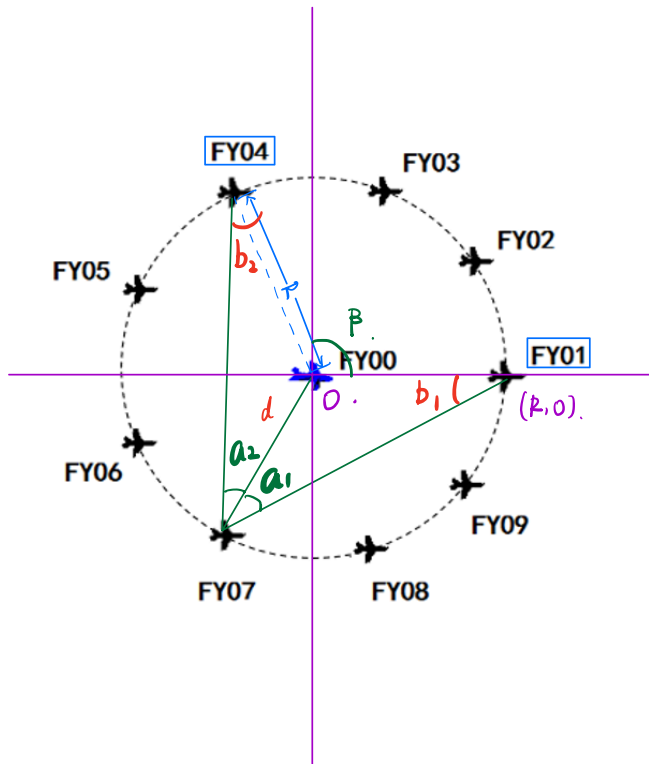
$$\frac{R}{\sin 2071} = \frac{d}{\sin \theta_2}$$

$$2071 + 2074 + \theta_1 + \theta_2 = 2\pi - \beta.$$

解出  $\theta_1, \theta_2$  之后, 由于 FY01 FY04 位置固定, 可确定 FY07 位置

Base case 1 (位于优弧且信息角无重叠)

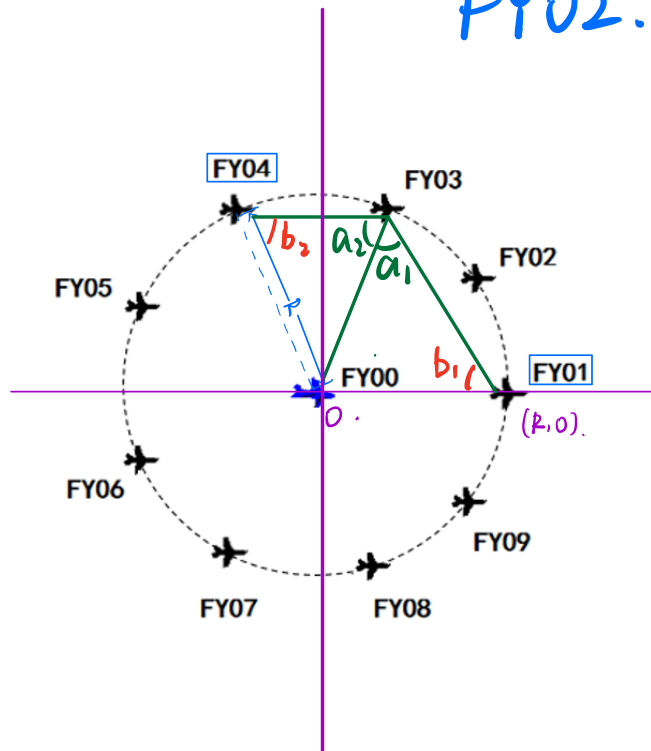
FY06, FY07, FY08



$$a_1 + a_2 + b_1 + b_2 = \frac{2\pi}{3}$$

Base case 2 (位于劣弧)

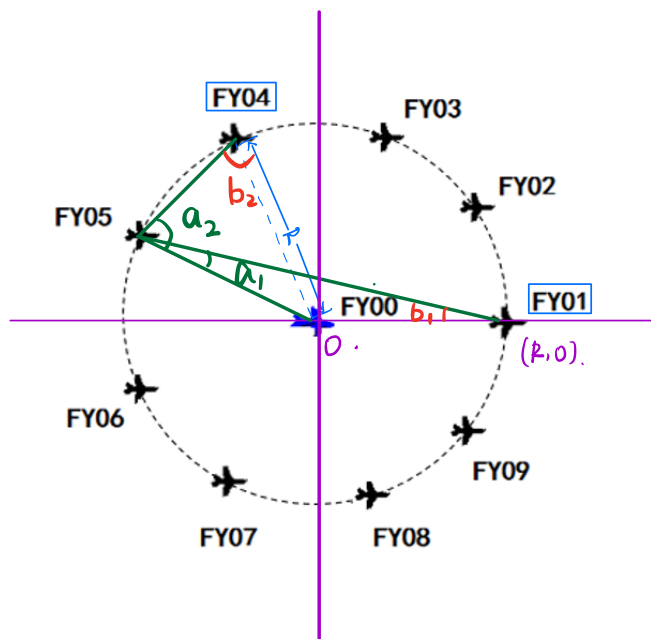
FY02. FY03



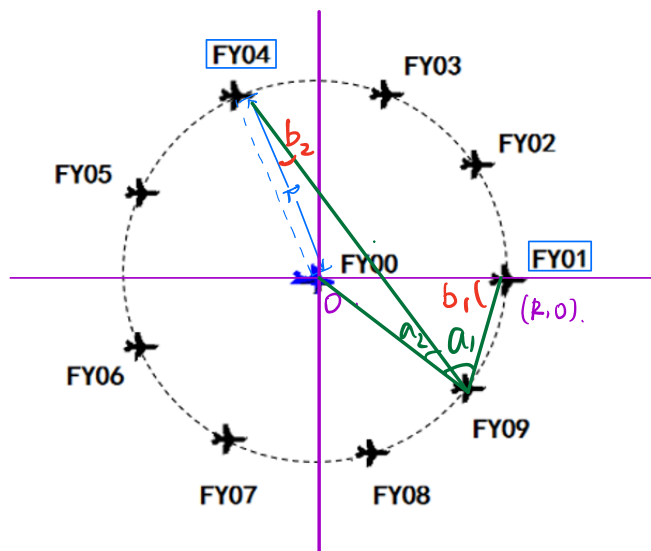
$$a_1 + a_2 + b_1 + b_2 = \frac{4\pi}{3}$$

Special Case

FY05, FY09



$$a_2 + b_2 - a_1 - b_1 = \frac{2\pi}{3}$$



$$a_1 + b_1 - a_2 - b_2 = \frac{2\pi}{3}$$

基准飞机  
FY04、FY07  
的相互迭代调整.

