有择?

II

① 知信号 → 移到对应圆上去

$\rho = 100$ m.

④ 才推最近的头移

调整方案?

∵ α 都正对着边

分别列式子、

对 AM'O:

$$\frac{\rho_A}{\sin\alpha_A} = \frac{\rho'}{\sin\beta_A} = \frac{l_A}{\sin\theta'} \quad ①$$

$$\alpha_A + \beta_A + \theta' = \pi \quad \cdots ②$$

对 BM'O

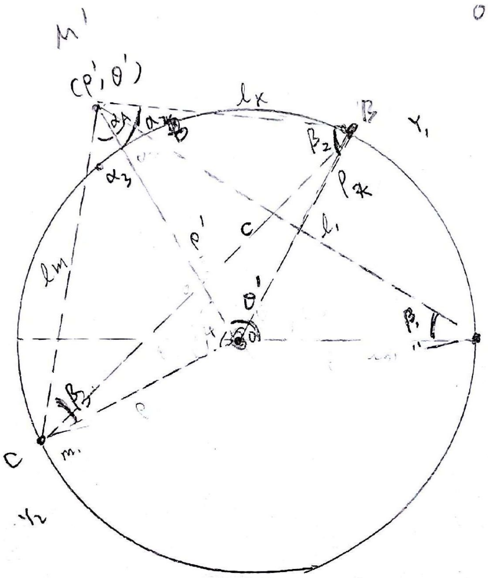
$$\frac{\rho_B}{\sin\alpha_B} = \frac{\rho'}{\sin\beta_B} = \frac{l_B}{\sin(\theta' - \theta_B)} \cdots ③$$

$$\alpha_B + \beta_B + (\theta' - \theta_B) = \pi \quad \cdots ④$$

对 CM'O

$$\frac{\rho_C}{\sin\alpha_C} = \frac{\rho'}{\sin\beta_C} = \frac{l_C}{\sin(\theta_C - \theta')} \cdots ⑤$$

$$\alpha_C + \beta_C + (\theta_C - \theta') = \pi \quad ⑥$$



$$\alpha_A + \alpha_B + \alpha_C + \beta_B + \beta_C + \theta_C - \theta' = 2\pi \cdots ⑦$$

∴ ② 第2架.

不知编号,

10个未知

00 01
00 Y_2
01 Y_1
01 Y_2

有: α_1, ρ

求 ρ' 和 θ'

$$\frac{\rho}{\sin\alpha_1} = \frac{l_1}{\sin\theta'} = \frac{\rho'}{\beta_1}$$

$$\theta' + \beta_1 + \alpha_1 = 180°$$

③ 1这加上.

~~2个方程~~

4个未知.

2个方程.

已知 β_1 和 l_1

由 其他无人机 相对.

① 若把除1架

自方程. 7个未知

↓ ✓

4方程

$$\frac{\rho'}{\sin\angle 2} = \frac{l_K}{\sin\angle 1} = \frac{\rho}{\sin(\alpha + \alpha_K)} \cdots ④ \; ⑤$$

$\angle 1 + \theta_K = \theta'$ ×

$$\angle 2 + (\alpha + \alpha_K) + \angle 1 = 180° \quad ⑥$$

③ 再加一架 (不可知).

$$\angle 3 + \angle 4 + \angle 1 + \angle 2 + \angle\alpha_1 + \angle\alpha_2 + \angle\alpha_3 = 2\pi \cdots ⑦$$

$$\frac{\rho'}{\sin\angle 3} = \frac{\rho}{\sin\alpha_3} = \frac{l_m}{\sin\angle 4} \quad ⑧ \cdots ⑨$$

$$C^2 = ~~\rho'^2 + \rho'^2 - 2\rho'^2 \times \cos(\angle 4 + \angle 1)~~ \cdots ⑩$$

$$= l_m^2 + l_K^2 - 2 l_m l_K \times \cos(\alpha_1 + \alpha_K + \alpha_3)$$

Question 1.

$$\begin{cases} \rho_A \cdot \sin\beta_A = \rho' \cdot \sin\alpha_A . & \cdots ① \\ \alpha_A + \beta_A + \theta' = \pi . & \cdots ② \end{cases}$$

$$\rho_B \cdot \sin\beta_B = \rho' \cdot \sin\alpha_B \quad \cdots ③$$

$$\alpha_B + \beta_B + (\theta' - \theta_B) = \pi . \quad \cdots ④$$

$$\rho_C \cdot \sin\beta_C = \rho' \cdot \sin\alpha_C \quad \cdots ⑤$$

$$\alpha_C + \beta_C + (\theta_C - \theta') = \pi . \quad \cdots ⑥$$

七未知?

Question III.

发信号：按键.
确定路径位置.