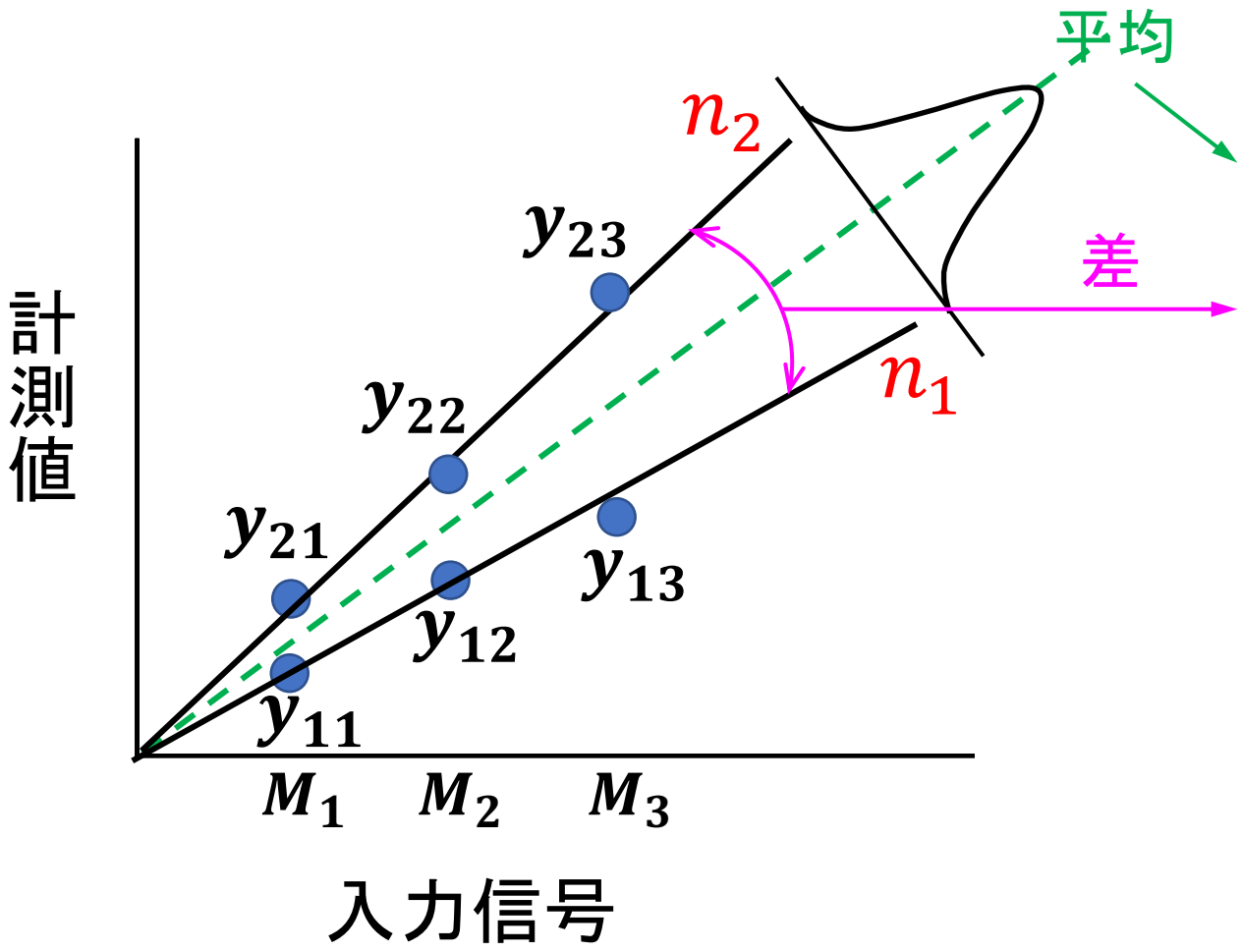
	M_1	M_2	M_3	線形式
n_1	$\boldsymbol{y_{11}}$	y_{12}	y_{13}	L_1
n_2	y_{21}	y_{22}	y_{23}	L_2



$$r = {M_1}^2 + {M_2}^2 + {M_3}^2$$

$$L_1 = M_1 \times y_{11} + M_2 \times y_{12} + M_3 \times y_{13}$$
$$L_2 = M_1 \times y_{21} + M_2 \times y_{22} + M_3 \times y_{23}$$

$$S_T = {y_{11}}^2 + {y_{12}}^2 + \cdots + {y_{23}}^2 \qquad (f = 6)$$

$$S_\beta = \frac{(L_1 + L_2)^2}{2r} \qquad (f = 1)$$

$$S_{N\times\beta} = \frac{{L_1}^2}{r} + \frac{{L_2}^2}{r} - S_\beta = \frac{(L_1 - L_2)^2}{2r} \qquad (f = 1)$$

$$S_N = S_T - S_\beta \qquad (f = 6 - 1 = 5)$$

$$V_N = \frac{S_N}{f}$$

$$S_e = S_T - S_{N\times\beta} - S_\beta \qquad (f = 6 - 1 - 1 = 4)$$

$$V_e = \frac{S_e}{f}$$

$$\eta = 10log\left(\frac{\frac{1}{2r}(S_\beta - V_e)}{V_N}\right)$$