$$\frac{1}{\sqrt{\lambda^{2}}} \frac{\lambda^{2}}{\sqrt{\lambda^{2}}} \frac{\partial^{2}}{\partial x^{2}} \frac{\partial^{2}}{\partial$$

罗氏色巨的

$$(\chi - \mu)^{T} z^{-1} (p - \mu)$$
 , B氏距离 (为5 M之间)
— 1xP PXP PXI —> 1x1.

$$\overline{Z} = U \wedge U^{T} \qquad U = (u_{1}, \dots, u_{p}) \wedge = dlog(\lambda_{1}, \dots \lambda_{p})$$

$$= (u_{1} \dots u_{p}) \begin{bmatrix} \lambda_{1} & \dots & \lambda_{p} \end{bmatrix} \begin{pmatrix} u_{1} \\ u_{2} \end{bmatrix}$$

$$= \sum_{i=1}^{p} \mu_{i} \lambda_{i} u_{i}^{T}.$$

$$= (U \wedge U^{T})^{+} = U \wedge^{+} U^{T}$$

$$= U \wedge^{+} U^{T}$$

$$\Sigma^{\dagger} = (U \wedge U^{\dagger})^{\dagger} = U \wedge^{\dagger} U^{\dagger}$$

$$= \sum_{i=1}^{p} u_i \lambda_i^{\dagger} u_i^{\dagger}$$

$$(\chi - \mu)^T z^T (\delta - \mu) = (\delta - \mu)^T \stackrel{?}{\underset{\sim}{\sim}} \mu_i \lambda_i^T \mu_i^T (\delta - \mu).$$

$$y_i = (b - \mu)^T u = z \frac{1}{\lambda_i} (b - \mu)^T u u^T (b - \mu)$$

$$y_i = (b - \mu)^T u_i = 2 \frac{1}{2} y_i y_i^T$$

$$\frac{|x|^{2}}{|x|^{2}} = \frac{|x|^{2}}{|x|^{2}} = \frac{1}{2} \frac{|x|^{2}}{|$$

$$\Delta = \frac{y_1^2}{\lambda_1} + \frac{y_2^2}{\lambda_2} = 1 \quad \text{ the Bidse.}$$



