## X = {X .. x . ... , X ... }

Y = { y , yz , ... , y My}

目标: minElRit) = min ty = || \lambda: - \lambda; - \lam

 $= \frac{1}{2} \int_{y}^{y} ||X_{1} - U_{x} - R(y_{1} - U_{y}) + (U_{x} - R(y_{1} - t_{y}))|^{2}$  $= \frac{1}{2} \int_{y}^{y} ||X_{1} - U_{x} - R(y_{1} - U_{y}) + (U_{x} - R(y_{1} - t_{y}))|^{2}$  $= \frac{1}{2} \int_{y}^{y} ||X_{1} - U_{x} - X_{1} - U_{y}||^{2} + ||U_{x} - R(y_{1} - U_{y})|^{2}$  $= \frac{1}{2} \int_{y}^{y} ||X_{1} - U_{x} - X_{1} - U_{y}||^{2}$  $= \frac{1}{2} \int_{y}^{y} ||X_{1} - U_{x} - X_{1} - U_{y}||^{2}$  $= \frac{1}{2} \int_{y}^{y} ||X_{1} - U_{x} - X_{1} - U_{y}||^{2}$  $= \frac{1}{2} \int_{y}^{y} ||X_{1} - U_{x} - X_{1} - U_{x}||^{2}$  $= \frac{1}{2} \int_{y}^{y} ||X_{1} -$ 

= Ux - Ux - R(Uy-Uy) =

U To = /y (11 xi - ux - R(yi - uy) 12 + 11 Ux - R Uy - {112}

U E(Rit) = E((Rit) + Ez(Rit)
only R solve 再代入了和古、全 邵名用了, ti R, 62(R,+)=0 U E.LR.t) = My 2 | 11xi - Ux - RCyi - Ux) ||2  $y = \frac{1}{\sqrt{2}} \frac{\sqrt{2}}{\sqrt{2}} || \frac{\chi_{i}}{\chi_{i}} - R y_{i}||^{2}$  $\frac{\sqrt{y}}{\sqrt{y}} \stackrel{?}{\rightleftharpoons} \left( \frac{x_i^{\prime\prime} x_i^{\prime\prime} + x_i^{\prime$ Eiletitas = trusa Trace LXiTRyil) 业上文: Yracel Phixit) = Trace ( Ryi Xi'T ) = Trace RH 1) find R => arymax (Trace RH) (LBAAT) 是 R. 每 Trace (AAT) = Îrace PAA, find R. TE Trace (RH) = Trace