trix Z be diagonal. is diagonal for "m" parameters for ti E & 1, ... n}  $= I_{ab} \approx \frac{1}{1} w_i \frac{\partial \rho_i}{\partial \theta_a} \frac{\partial \rho_i}{\partial \theta_b}$ 00000000000 I data point dp. (der). 20179 So, Intrace (Is, Is, I)  $\left(\frac{\partial \rho_1}{\partial \theta_1} \sigma_{\theta_1}\right)^2 + \dots + \left(\frac{\partial \rho_1}{\partial \theta_m} \sigma_{\theta_m}\right)^2$ 

With the wis put in (assuming Hab is diagonal):  $H_{ab}|_{\theta^{*}} = I_{ab} \approx \sum_{i=1}^{n} \omega_{i} \left(\frac{\partial P_{i}}{\partial \theta_{i}}\right)^{2} \rightarrow \text{for } a=b$ Let W= ( Jwz ( VW, JOI). (VW, dPm)  $I_{\alpha}^{-1} = \left( \left( \nabla_{\theta}, \vec{p} \right)^{T} \mathsf{W} \left( \nabla_{\theta}, \vec{p} \right) \right)^{-1}$ (TOMP)TW(TOP) ( dei) 2 wildei)2 ·· (dpm) = w; (dp; )2