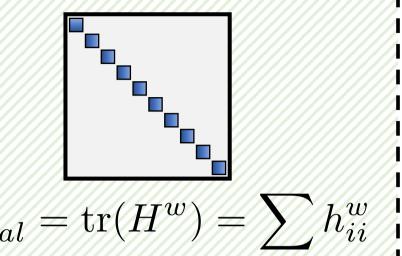


Hessian Matrix of Weight Matrix w

$$\mathbf{H}^{w} = \begin{bmatrix} h_{11}^{w} & h_{12}^{w} & \cdots & h_{1n}^{w} \\ h_{21}^{w} & h_{22}^{w} & \cdots & h_{2n}^{w} \\ \vdots & \vdots & \ddots & \vdots \\ h_{n1}^{w} & h_{n2}^{w} & \cdots & h_{nn}^{w} \end{bmatrix}$$

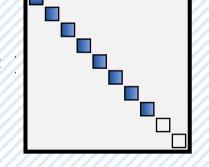
$$S_{global}^{w} = \operatorname{tr}(H^{w}) = \sum_{i} h_{ii}^{w}$$

Global Metric



Local Metric

$$S_{EffectiveRank}^{w} = 1$$



$$S_{\text{local}}^{(w)} = \beta_1 \cdot S_{Topk}^w + \beta_2 \cdot S_{EffectiveRank}^w$$

Rank Allocation

$$r^{w} = \frac{\theta^{w}}{\sum_{w} \theta^{w}} \cdot r_{total} \quad \theta^{w} = \gamma_{1} \cdot S_{global}^{w} + \gamma_{2} \cdot S_{local}^{(w)}$$

