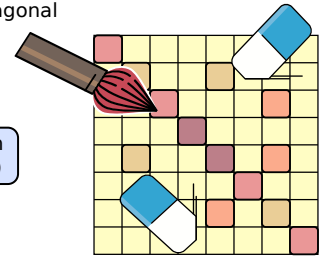
$$\hat{H}_{k+1} = e^{s_k \hat{W}_k(\vec{\alpha},\vec{\beta})} \hat{H}_k e^{-s_k \hat{W}_k(\vec{\alpha},\vec{\beta})}$$

$$\hat{D}_k = \sum_{i=1}^{L} \left(\alpha_i \hat{Z}_i + \beta_i \hat{Z}_i \hat{Z}_{i+1} \right)$$

Apply DBI

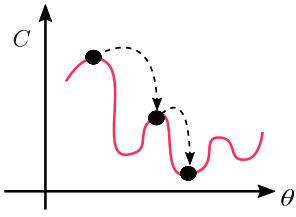
Increasing diagonal

Erasing off-diag



Erasing off-diag

Compute cost function (can be off-diag norm)



$$\theta = [s_k, \vec{\alpha}, \vec{\beta}]$$

Update DBI