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$$W_X \stackrel{\text{tSVD}}{=} U_X D_X V_X^T \rightarrow [(U_X D_X) (V_X D_X)] \stackrel{\text{rrSVD}}{=} U_1 D_1 V_1^T$$

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- **A-Priori** Error Indicator (predict time domain model reduction error)

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- Fused Computation via **HAPOD** (prescribe POD/SVD projection error)

$$\|y - \tilde{y}\|_{L_2} \lesssim \sqrt{\varepsilon \|B\|_2 \|C\|_2}$$