

Diagram illustrating the decomposition of a 3D volume  $\hat{\mathbf{V}}(f, b, t)$  into a sum of products of 1D components.

The volume  $\hat{\mathbf{V}}(f, b, t)$  is shown on the left, with axes labeled  $f$ ,  $b$ , and  $t$ .

The volume is approximated ( $\approx$ ) by a sum of products of 1D components:

For the first term (index 1):

- A vertical bar representing the  $f$ -axis, labeled  $\mathbf{w}_1$  and  $f$ .
- A horizontal bar representing the  $b$ -axis, labeled  $\mathbf{m}_1$  and  $b$ .
- A diagonal bar representing the  $t$ -axis, labeled  $\mathbf{h}_1$  and  $t$ .

The sum continues with an ellipsis ( $\dots$ ) and a plus sign ( $+$ ).

For the final term (index  $K$ ):

- A vertical bar representing the  $f$ -axis, labeled  $\mathbf{w}_K$  and  $f$ .
- A horizontal bar representing the  $b$ -axis, labeled  $\mathbf{m}_K$  and  $b$ .
- A diagonal bar representing the  $t$ -axis, labeled  $\mathbf{h}_K$  and  $t$ .