

$$\mathcal{A}_{i_1 i_2 i_3 i_4} = G_1 \times G_2 \times G_3 \times G_4$$

The diagram illustrates the decomposition of a 4D tensor $\mathcal{A}_{i_1 i_2 i_3 i_4}$ into four 3D tensors $G_1, G_2, G_3,$ and G_4 . The tensors are represented by 3D grids of colored blocks (red and light pink) with indices $i_1, i_2, i_3,$ and i_4 indicated below them.

- G_1 is a 3D tensor with a red block at the top-left and light pink blocks below it.
- G_2 is a 3D tensor with a red block at the top-left and light pink blocks below it.
- G_3 is a 3D tensor with a red block at the top-left and light pink blocks below it.
- G_4 is a 3D tensor with a red block at the top-left and light pink blocks below it.