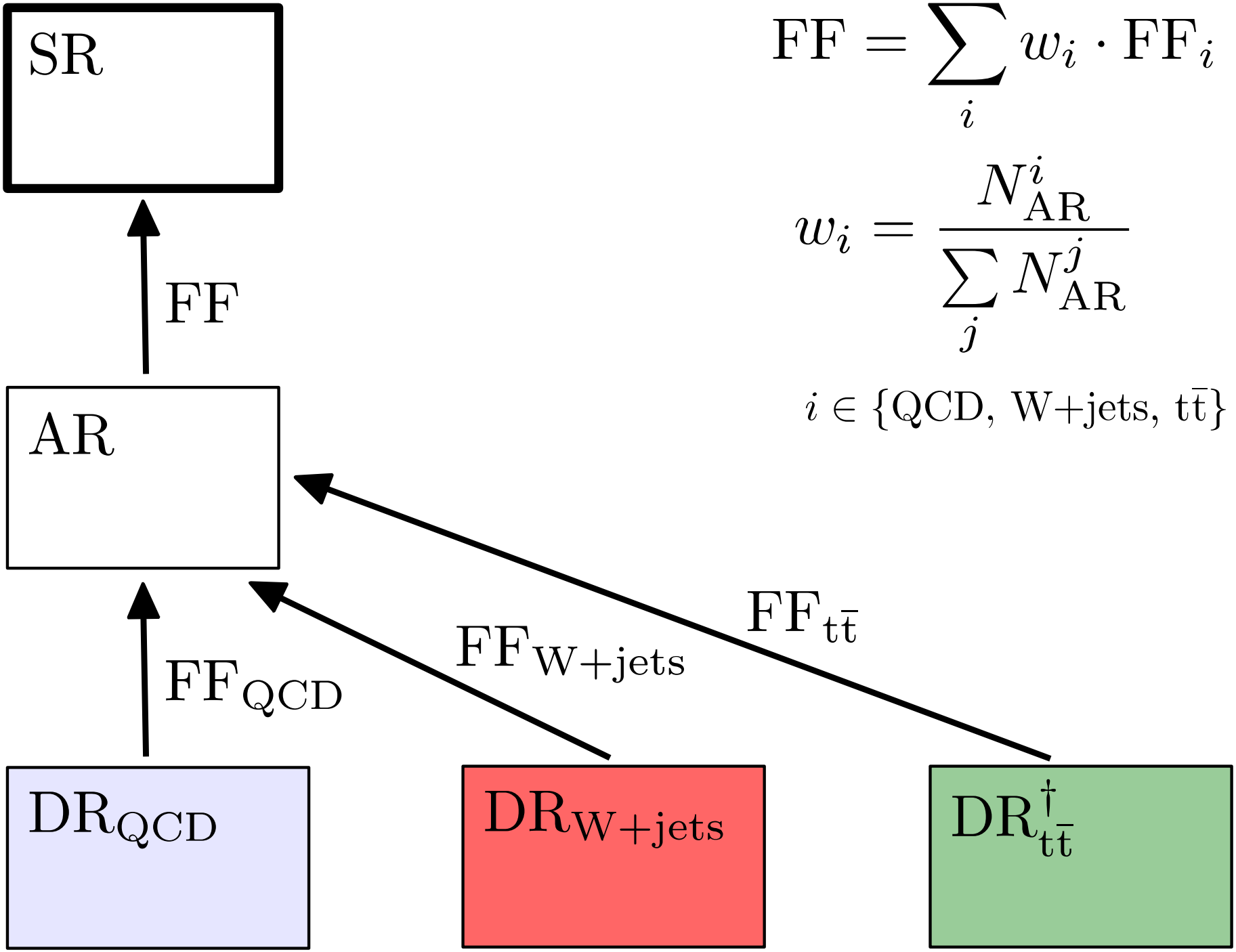

$$\mathrm{FF} = \sum_i w_i \cdot \mathrm{FF}_i$$

$$w_i = \frac{N^i_{\mathrm{AR}}}{\sum_j N^j_{\mathrm{AR}}}$$

$i \in \{\mathrm{QCD},\ \mathrm{W+jets},\ \mathrm{t\bar{t}}\}$

†: taken from simulation