

$$R_{\text{rel}}^{p_T} = \frac{1 + \langle \mathcal{A} \rangle}{1 - \langle \mathcal{A} \rangle}, \quad \text{where}$$

$$\mathcal{A} = \frac{p_T^{\text{probe}} - p_T^{\text{tag}}}{2p_T^{\text{ave}}}, \quad \text{and}$$

$$R_{\text{rel}}^{MPF} = \frac{1 + \langle \mathcal{B} \rangle}{1 - \langle \mathcal{B} \rangle}, \quad \text{where}$$

$$\mathcal{B} = 1 + \frac{\vec{E}_{T,\text{miss}} \cdot \vec{p}_T^{\text{tag}}}{2p_T^{\text{ave}} \cdot |\vec{p}_T^{\text{tag}}|}.$$