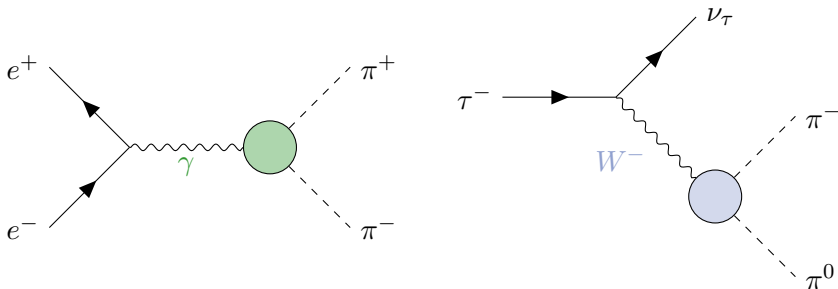


# Isospin-breaking corrections to $\tau \rightarrow \pi\pi^0\nu_\tau$



CVC between EM and weak form factors:

$$\sigma_{e^+e^- \rightarrow 2\pi}^{(0)}(s) = \frac{1}{\mathcal{N}(s)\Gamma_e^{(0)}} \frac{d\Gamma(\tau^- \rightarrow \pi^-\pi^0\nu_\tau)}{ds} \frac{R_{IB}(s)}{S_{EW}}$$

→ Isospin-breaking corrections at  $\mathcal{O}(e^2p^2)$  in a dispersive approach:

$$F_\pi^V(s) \rightarrow \frac{1}{\pi} \int_{s_{th}}^{\infty} ds' \frac{\text{Im}F_\pi^V(s')}{s' - s}$$