# Basis Bern (EFT WET-3)

# Sectors

## udenu

WC name	Operator	Type
1udee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	C
5udee	$\frac{4 \stackrel{\circ}{G_F}}{\sqrt{2}} (\bar{u} P_R d) (\bar{e} \nu_e)$	$^{\mathrm{C}}$
1pudee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu u_e)$	$^{\mathrm{C}}$
5pudee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{e}\nu_e)$	$\mathbf{C}$
7pudee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_e)$	$^{\mathrm{C}}$
1udemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5udemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{e}\nu_\mu)$	$\mathbf{C}$
1pudemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5pudemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{e}\nu_\mu)$	$\mathbf{C}$
7pudemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1udetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5udetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{e}\nu_{\tau})$	$\mathbf{C}$
1pudetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu \nu_ au)$	$\mathbf{C}$
5pudetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{e}\nu_{\tau})$	$\mathbf{C}$
7pudetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	$\mathbf{C}$

#### udmunu

WC name	Operator	Type
1udmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	C
5udmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\mu}\nu_e)$	$\mathbf{C}$
1pudmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pudmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\mu}\nu_e)$	$\mathbf{C}$
7pudmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1udmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5udmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
1pudmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	$^{\mathrm{C}}$
5pudmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
7pudmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1udmutau	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})}{\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}d)(\bar{\mu}\gamma_{\mu}\nu_{\tau})}$	$\mathbf{C}$

WC name	Operator	Type
5udmutau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\mu}\nu_{\tau})$	C
1pudmutau	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{u} P_L \gamma^\mu d) (\bar{\mu} \gamma_\mu \nu_\tau)$	$\mathbf{C}$
5pudmutau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\mu}\nu_{\tau})$	$\mathbf{C}$
7pudmutau	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\mu}\nu_{\tau})}{\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}d)(\bar{\mu}\gamma_{\mu}\nu_{\tau})} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\mu}\nu_{\tau})}{\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_{\tau})} $	$^{\mathrm{C}}$

#### sdsd

WC name	Operator	Type
1dsds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Ls)(\bar{d}\gamma^{\mu}P_Ls)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}_{\alpha}P_Ls_{\beta})(\bar{d}_{\beta}P_Rs_{\alpha})$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{d}P_Ls)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Rs)(\bar{d}\gamma^{\mu}P_Rs)$	C
5dsds	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{d}_{\alpha}P_Ls_{\beta})(\bar{d}_{\beta}P_Rs_{\alpha})$	$\mathbf{C}$
2dsds	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{d}P_Ls)(\bar{d}P_Ls)$	$\mathbf{C}$
1pdsds	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Rs)(\bar{d}\gamma^{\mu}P_Rs)$	$\mathbf{C}$
3dsds	$\frac{4\overset{\sim}{G_F}}{\sqrt{2}}(ar{d}_{lpha}P_Ls_{eta})(ar{d}_{eta}P_Ls_{lpha})$	$\mathbf{C}$
2pdsds	$\frac{4\tilde{G_F}}{\bar{c}}(\bar{d}P_{PS})(\bar{d}P_{PS})$	$\mathbf{C}$
4dsds	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{d}P_Rs)$	$\mathbf{C}$
3pdsds	$rac{4ar{\mathcal{G}_F}}{\sqrt{2}}(ar{d}_lpha P_R s_eta)(ar{d}_eta P_R s_lpha)$	$^{\mathrm{C}}$

#### usenu

WC name	Operator	Type
1usee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu s)(\bar{e}\gamma_\mu\nu_e)$	C
5usee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{e}\nu_e)$	$^{\mathrm{C}}$
1pusee	$\frac{4 \check{G_F}}{\sqrt{2}} (\bar{u} P_L \gamma^\mu s) (\bar{e} \gamma_\mu \nu_e)$	$^{\mathrm{C}}$
5pusee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{e}\nu_e)$	$\mathbf{C}$
7pusee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1usemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu s)(\bar{e}\gamma_\mu \nu_\mu)$	$\mathbf{C}$
5usemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{e}\nu_\mu)$	$\mathbf{C}$
1pusemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu s)(\bar{e}\gamma_\mu \nu_\mu)$	$\mathbf{C}$
5pusemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L s)(\bar{e}\nu_\mu)$	$\mathbf{C}$
7pusemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1usetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu s)(\bar{e}\gamma_\mu \nu_ au)$	$\mathbf{C}$
5usetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{e}\nu_{\tau})$	$\mathbf{C}$
1pusetau	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{u}P_L\gamma^\mu s)(\bar{e}\gamma_\mu \nu_ au)$	$^{\mathrm{C}}$
5pusetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{e}\nu_{\tau})$	$^{\mathrm{C}}$
7pusetau	$\frac{4G_F^c}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	C

#### usmunu

WC name	Operator	Type
1usmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_e)$	$\overline{C}$
5usmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\mu}\nu_e)$	$^{\mathrm{C}}$
1pusmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_e)$	$^{\mathrm{C}}$
5pusmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\mu}\nu_e)$	$\mathbf{C}$
7pusmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1usmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5usmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
1pusmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5pusmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
7pusmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1usmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_{\tau})$	$\mathbf{C}$
5usmutau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\mu}\nu_{\tau})$	$^{\mathrm{C}}$
1pusmutau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_{ au})$	$^{\mathrm{C}}$
5pusmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\mu}\nu_{ au})$	$^{\mathrm{C}}$
7pusmutau	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	$\mathbf{C}$

# sd

WC name	Operator	Type
7gammasd	$\frac{4G_F}{\sqrt{2}}\frac{e}{a^2}m_s(\bar{d}P_R\sigma_{\mu\nu}s)F^{\mu\nu}$	С
8gsd	$\frac{\sqrt[4]{G_F}}{\sqrt{2}}\frac{1}{a_d}m_s(\bar{d}P_R\sigma_{\mu\nu}T^As)G_A^{\mu\nu}$	$\mathbf{C}$
7pgammasd	$rac{4G_F^2}{\sqrt{2}}rac{g_s^2}{g_s^2}m_s(ar{d}P_L\sigma_{\mu u}s)F^{\mu u}$	$\mathbf{C}$
8pgsd	$\frac{\sqrt[4]{G_F}}{\sqrt{2}} \frac{\sqrt[3]{d}}{q_d} m_s (\bar{d}P_L \sigma_{\mu\nu} T^A s) G_A^{\mu\nu}$	$\mathbf{C}$
1dsuu	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{u}\gamma^\mu u)$	$\mathbf{C}$
2dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^As)(\bar{u}\gamma^\mu T^Au)$	$\mathbf{C}$
3dsuu	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{d} P_R \gamma_{\mu\nu\rho} s) (\bar{u} \gamma^{\mu\nu\rho} u)$	$^{\mathrm{C}}$
4dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{u}u)$	$\mathbf{C}$
6dsuu	$\frac{4\overset{\leftarrow}{G_F}}{\sqrt{2}}(\bar{d}P_RT^As)(\bar{u}T^Au)$	$\mathbf{C}$
7dsuu	$\frac{4\overset{.}{G_F}}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{u}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{u}\sigma_{\mu\nu}T^Au)$	$\mathbf{C}$
9dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10dsuu	$\frac{{}^{4}\!$	$\mathbf{C}$
1pdsuu	$\frac{4\widetilde{Q}_F^2}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{u}\gamma^\mu u)$	$\mathbf{C}$

WC name	Operator	Type
2pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^As)(\bar{u}\gamma^\mu T^Au)$	С
3pdsuu	$\frac{4G_F}{\bar{\epsilon}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{u}\gamma^{\mu\nu\rho}u)$	$^{\mathrm{C}}$
4pdsuu	$\frac{4G_F}{\bar{\epsilon}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$^{\mathrm{C}}$
5pdsuu	$\frac{\sqrt{2}}{\sqrt{G}}(\bar{d}P_{L}s)(\bar{u}u)$	$\mathbf{C}$
6pdsuu	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{u}\gamma^{\mu\nu\rho}u)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Au)} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{u}u)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^As)(\bar{u}T^Au)} $	$^{\mathrm{C}}$
7pdsuu	$ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{u}\sigma_{\mu\nu}u)  \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{u}\sigma_{\mu\nu}T^Au)  \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)  \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au) $	$^{\mathrm{C}}$
8pdsuu	$\frac{\sqrt{2}}{4G_F}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{u}\sigma_{\mu\nu}T^Au)$	$^{\mathrm{C}}$
9pdsuu	$\frac{4G_F}{\bar{c}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	$^{\mathrm{C}}$
10pdsuu	$\frac{4G_F}{G}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	$^{\mathrm{C}}$
1dsss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{s}\gamma^\mu s)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{s}\gamma^{\mu\nu\rho}s)$	$^{\mathrm{C}}$
3dsss	$\frac{4G_F}{\bar{\epsilon}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{s}\gamma^{\mu\nu\rho}s)$	$^{\mathrm{C}}$
5dsss	$rac{\sqrt[4]{G_F}}{\sqrt[4]{2}}(ar{d}P_Rs)(ar{s}s)$	$^{\mathrm{C}}$
7dsss	$\frac{4G_F}{\bar{\epsilon}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{s}\sigma_{\mu\nu}s)$	$^{\mathrm{C}}$
9dsss	$\frac{\frac{4\breve{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{s}\sigma_{\mu\nu}s)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)}$	$^{\mathrm{C}}$
1pdsss	$\frac{4G_F}{G}(\bar{d}P_L\gamma_{\mu}s)(\bar{s}\gamma^{\mu}s)$	$^{\mathrm{C}}$
3pdsss	$\frac{4G_F}{\bar{\epsilon}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{s}\gamma^{\mu\nu\rho}s)$	$^{\mathrm{C}}$
5pdsss	$\frac{\sqrt{2}}{\sqrt{2}} \frac{(dP_L \gamma_{\mu} s)(\bar{s} \gamma^{\mu} s)}{(\bar{d} P_L \gamma_{\mu} s)(\bar{s} \gamma^{\mu} s)}$ $\frac{4G_F}{\sqrt{2}} (\bar{d} P_L \gamma_{\mu\nu\rho} s)(\bar{s} \gamma^{\mu\nu\rho} s)$ $\frac{4G_F}{\sqrt{2}} (\bar{d} P_L s)(\bar{s} s)$	$^{\mathrm{C}}$
7pdsss	$\frac{\sqrt{2}}{4G_F}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{s}\sigma_{\mu\nu}s)$	$\mathbf{C}$
9pdsss	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{s}\sigma_{\mu\nu}s)}{\sqrt{2}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)}$	$^{\mathrm{C}}$
1dsdd	$\frac{4G_F}{2}(d\gamma P_T s)(d\gamma^{\mu}d)$	$^{\mathrm{C}}$
1pdsdd	$\frac{\sqrt{2}}{\sqrt{G}}(\bar{d}\gamma_{\mu}P_{B}s)(\bar{d}\gamma^{\mu}d)$	$^{\mathrm{C}}$
3dsdd	$\begin{array}{c} \sqrt{2} \left( \bar{a} \gamma_{\mu} P_{L} \mathcal{D} \right) \left( \bar{a} \gamma^{\mu} d \right) \\ \frac{4 G_{F}}{\sqrt{2}} \left( \bar{d} \gamma_{\mu} P_{R} s \right) \left( \bar{d} \gamma^{\mu} d \right) \\ \frac{4 G_{F}}{\sqrt{2}} \left( \bar{d} \gamma_{\mu\nu\rho} P_{L} s \right) \left( \bar{d} \gamma^{\mu\nu\rho} d \right) \\ \frac{4 G_{F}}{\sqrt{2}} \left( \bar{d} \gamma_{\mu\nu\rho} P_{R} s \right) \left( \bar{d} \gamma^{\mu\nu\rho} d \right) \end{array}$	$^{\mathrm{C}}$
3pdsdd	$\frac{\sqrt{2}}{\sqrt{G}}(\bar{d}\gamma_{\mu\nu\rho}P_Rs)(\bar{d}\gamma^{\mu\nu\rho}d)$	$^{\mathrm{C}}$
5dsdd	$\frac{\sqrt{2}}{\sqrt{G}}(\bar{d}P_L s)(\bar{d}d)$	$^{\mathrm{C}}$
5pdsdd	$rac{4G_F^2}{\sqrt{2}}(ar{d}P_Ls)(ar{d}d) \ rac{4G_F}{\sqrt{2}}(ar{d}P_Rs)(ar{d}d)$	$^{\mathrm{C}}$
7dsdd	$ \frac{4G_F}{\sqrt{2}}(\bar{d}\sigma^{\mu\nu}P_Ls)(\bar{d}\sigma_{\mu\nu}d) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}\sigma^{\mu\nu}P_Rs)(\bar{d}\sigma_{\mu\nu}d) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}\gamma^{\mu\nu}\rho\sigma P_Ls)(\bar{d}\gamma^{\mu\nu}\rho\sigma d) $	$^{\mathrm{C}}$
7pdsdd	$\frac{\sqrt{2}}{\sqrt{G}}(ar{d}\sigma^{\mu u}P_{R}s)(ar{d}\sigma_{\mu u}d)$	$^{\mathrm{C}}$
9dsdd	$\frac{\sqrt{2}}{4G_F}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Ls)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	$^{\mathrm{C}}$
9pdsdd	$\frac{4G_F}{\overline{c}}(d\gamma_{\mu\nu\rho\sigma}P_P s)(d\gamma^{\mu\nu\rho\sigma}d)$	$^{\mathrm{C}}$
1dsee	$\frac{\sqrt{2}}{\sqrt{G}}(\bar{d}P_{R}\gamma_{\mu}s)(\bar{e}\gamma^{\mu}e)$	$^{\mathrm{C}}$
1pdsee	$\frac{\sqrt{2}}{\sqrt{G}}(\bar{d}P_L\gamma_{\mu}s)(\bar{e}\gamma^{\mu}e)$	$^{\mathrm{C}}$
3dsee	$\frac{4G_F}{\bar{\epsilon}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}e)$	$^{\mathrm{C}}$
3pdsee	$ \frac{\sqrt{2}}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s) (\bar{e}\gamma^\mu e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s) (\bar{e}\gamma^\mu e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s) (\bar{e}\gamma^\mu e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s) (\bar{e}\gamma^{\mu\nu\rho} e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s) (\bar{e}\gamma^{\mu\nu\rho} e) $	$\mathbf{C}$
5dsee	$\frac{\sqrt{2}}{\sqrt{G}}(\bar{d}P_Rs)(\bar{e}e)$	$^{\mathrm{C}}$
5pdsee	$\frac{\sqrt{2}}{4G_F}(\bar{d}P_{LS})(\bar{e}e)$	$^{\mathrm{C}}$
7dsee	$ \frac{\sqrt{2}}{\sqrt{2}} (\bar{d}P_R s)(\bar{e}e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{e}e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{e}e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{e}\sigma_{\mu\nu}e) \\ \frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{e}\sigma_{\mu\nu}e) $	$^{\mathrm{C}}$
7pdsee	$\frac{\sqrt{2}}{4G_{F}}(\bar{d}P_{L}\sigma^{\mu\nu}s)(\bar{e}\sigma_{m\nu}e)$	$^{\mathrm{C}}$
•	$\sqrt{2}$ $\sqrt{2}$ $\sqrt{\mu\nu}$	-
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WC name	Operator	Type
9dsee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	C
9pdsee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
1dsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\mu}\gamma^\mu\mu)$	$\mathbf{C}$
1pdsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\mu}\gamma^\mu\mu)$	$\mathbf{C}$
3dsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
3pdsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
5dsmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{\mu}\mu)$	$\mathbf{C}$
5pdsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{\mu}\mu)$	$\mathbf{C}$
7dsmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
7pdsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
9dsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9pdsmumu	$\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	C

#### sdemu

WC name	Operator	Type
1dsemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{e}\gamma^\mu\mu)$	C
1pdsemu	$rac{4G_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{e}\gamma^\mu\mu) \ rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{e}\gamma^\mu\mu)$	$^{\mathrm{C}}$
3dsemu	$\frac{4G_F}{\bar{e}}(\bar{d}P_B\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	$^{\mathrm{C}}$
3pdsemu	$rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_{\mu u ho}s)(ar{e}\gamma^{\mu u ho}\mu)$	$^{\mathrm{C}}$
5dsemu	$rac{4\check{G}_F}{\sqrt{2}}(ar{d}P_Rs)(ar{e}\mu)$	$^{\mathrm{C}}$
5pdsemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{e}\mu)$	$^{\mathrm{C}}$
7dsemu	$rac{4G_F^2}{\sqrt{2}}(ar{d}P_R\sigma^{\mu u}s)(ar{e}\sigma_{\mu u}\mu)$	$\mathbf{C}$
7pdsemu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{d} P_L \sigma^{\mu  u} s) (\bar{e} \sigma_{\mu  u} \mu)$	$\mathbf{C}$
9dsemu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	$^{\mathrm{C}}$
9pdsemu	$ \frac{4G_F^C}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\mu)  \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)  \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu) $	С

## sdmue

WC name	Operator	Type
1dsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\mu}\gamma^\mu e)$	$\overline{C}$
1pdsmue	$\frac{^{4G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\mu}\gamma^\mu e)$ $\frac{^{4G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\mu}\gamma^\mu e)$	$\mathbf{C}$
3dsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
3pdsmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
5dsmue	$\frac{\frac{4\vec{Q}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)}{\frac{4\vec{Q}_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{\mu}e)}$	$\mathbf{C}$

WC name	Operator	Type
5pdsmue	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{\mu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}e)} $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}e) $	C
7dsmue	$\frac{4\overleftarrow{Q_F}}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}e)$	$\mathbf{C}$
7pdsmue	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9dsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9pdsmue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)}$	С

#### sdnunu

WC name	Operator	Type
nu1dsee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_e\gamma^\mu\nu_e)$	$\overline{C}$
nu1pdsee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_e\gamma^\mu\nu_e)$	$\mathbf{C}$
nu1dsmumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{ u}_\mu\gamma^\mu u_\mu)$	$^{\mathrm{C}}$
nu1pdsmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_\mu\gamma^\mu\nu_\mu)$	$\mathbf{C}$
nu1dstautau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_\tau\gamma^\mu\nu_\tau)$	$\mathbf{C}$
nu1pdstautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{ u}_ au\gamma^\mu u_ au)$	$\mathbf{C}$
nu1dsemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{ u}_e\gamma^\mu u_\mu)$	$^{\mathrm{C}}$
nu1pdsemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_e\gamma^\mu\nu_\mu)$	$\mathbf{C}$
nu1dsmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	$^{\mathrm{C}}$
nu1pdsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	$\mathbf{C}$
nu1dsetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_e\gamma^\mu\nu_ au)$	$\mathbf{C}$
nu1pdsetau	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{ u}_e\gamma^\mu u_ au)$	$^{\mathrm{C}}$
nu1dstaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	$\mathbf{C}$
nu1pdstaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	$\mathbf{C}$
nu1dstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	$\mathbf{C}$
nu1pdstaumu	$rac{4 \check{G_F}}{\sqrt{2}} (ar{d} P_L \gamma_\mu s) (ar{ u}_ au \gamma^\mu  u_\mu)$	$\mathbf{C}$
nu1dsmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{ u}_\mu\gamma^\mu u_ au)$	$^{\mathrm{C}}$
nu1pdsmutau	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{ u}_\mu\gamma^\mu u_ au)$	$\mathbf{C}$