Basis flavio (EFT WET-4)

Sectors

The effective Lagrangian is defined as

$$\mathcal{L}_{\text{eff}} = -\mathcal{H}_{\text{eff}} = \sum_{O_i = O_i^{\dagger}} C_i O_i + \sum_{O_i \neq O_i^{\dagger}} \left(C_i O_i + C_i^* O_i^{\dagger} \right).$$

sdsd

WC name	Operator	Type
CVLL_sdsd	$(\bar{d}_L \gamma^\mu s_L)(\bar{d}_L \gamma_\mu s_L)$	С
CVRR_sdsd	$(\bar{d}_R \gamma^\mu s_R)(\bar{d}_R \gamma_\mu s_R)$	\mathbf{C}
CSLL_sdsd	$(ar{d}_R s_L)(ar{d}_R s_L)$	\mathbf{C}
CSRR_sdsd	$(ar{d}_L s_R)(ar{d}_L s_R)$	\mathbf{C}
CTLL_sdsd	$(\bar{d}_R \sigma^{\mu\nu} s_L)(\bar{d}_R \sigma_{\mu\nu} s_L)$	\mathbf{C}
CTRR_sdsd	$(\bar{d}_L \sigma^{\mu\nu} s_R)(\bar{d}_L \sigma_{\mu\nu} s_R)$	\mathbf{C}
CVLR_sdsd	$(\bar{d}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu s_R)$	\mathbf{C}
CSLR_sdsd	$(ar{d}_R s_L)(ar{d}_L s_R)$	\mathbf{C}

cucu

WC name	Operator	Type
CVLL_ucuc	$(\bar{c}_L \gamma^\mu u_L)(\bar{c}_L \gamma_\mu u_L)$	С
CVRR_ucuc	$(\bar{c}_R \gamma^\mu u_R)(\bar{c}_R \gamma_\mu u_R)$	\mathbf{C}
CSLL_ucuc	$(\bar{c}_R u_L)(\bar{c}_R u_L)$	\mathbf{C}
CSRR_ucuc	$(\bar{c}_L u_R)(\bar{c}_L u_R)$	\mathbf{C}
CTLL_ucuc	$(\bar{c}_R \sigma^{\mu\nu} u_L)(\bar{c}_R \sigma_{\mu\nu} u_L)$	\mathbf{C}
CTRR_ucuc	$(\bar{c}_L \sigma^{\mu\nu} u_R)(\bar{c}_L \sigma_{\mu\nu} u_R)$	\mathbf{C}
CVLR_ucuc	$(\bar{c}_L \gamma^\mu u_L)(\bar{c}_R \gamma_\mu u_R)$	\mathbf{C}
CSLR_ucuc	$(\bar{c}_R u_L)(\bar{c}_L u_R)$	С

sd

WC name	Operator	Type
C9_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{e}\gamma_{\mu}e)$	C
C9p_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{e}\gamma_{\mu}e)$	\mathbf{C}
C10_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{e}\gamma_{\mu}\gamma_5 e)$	\mathbf{C}
C10p_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{e}\gamma_{\mu}\gamma_5 e)$	\mathbf{C}
CS_sdee	$rac{4\tilde{G}_{F}^{2}}{\sqrt{2}}V_{ts}V_{td}^{*}rac{e^{2}}{16\pi^{2}}m_{s}(ar{d}_{L}s_{R})(ar{e}e)$	\mathbf{C}

WC name	Operator	Type
CSp_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{e}e)$	С
CP_sdee	$\frac{4 V_{LS}^2}{\sqrt{2}} V_{ts} V_{td}^* \frac{e^2}{16 \pi^2} m_s (\bar{d}_L s_R) (\bar{e} \gamma_5 e)$	\mathbf{C}
CPp_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{e}\gamma_5e)$	\mathbf{C}
C9_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\mu}\gamma_{\mu}\mu)$	\mathbf{C}
C9p_sdmumu	$rac{4 ilde{Q}_F^2}{\sqrt{2}} V_{ts} V_{td}^* rac{e^2}{16 \pi^2} (ar{d}_R \gamma^\mu s_R) (ar{\mu} \gamma_\mu \mu)$	\mathbf{C}
C10_sdmumu	$\frac{4 \tilde{Q}_F}{\sqrt{2}} V_{ts} V_{td}^* \frac{e^2}{16 \pi^2} (\bar{d}_L \gamma^\mu s_L) (\bar{\mu} \gamma_\mu \gamma_5 \mu)$	\mathbf{C}
C10p_sdmumu	$\frac{4 V_F^2}{\sqrt{2}} V_{ts} V_{td}^* \frac{e^2}{16 \pi^2} (ar{d}_R \gamma^\mu s_R) (ar{\mu} \gamma_\mu \gamma_5 \mu)$	\mathbf{C}
CS_sdmumu	$\frac{4Q_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}\mu)$	\mathbf{C}
CSp_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{\mu}\mu)$	\mathbf{C}
CP_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}\gamma_5\mu)$	\mathbf{C}
CPp_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{\mu}\gamma_5\mu)$	\mathbf{C}
C9_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\tau}\gamma_{\mu}\tau)$	\mathbf{C}
C9p_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{\tau}\gamma_{\mu}\tau)$	\mathbf{C}
C10_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\tau}\gamma_{\mu}\gamma_5\tau)$	\mathbf{C}
C10p_sdtautau	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_R\gamma^{\mu}s_R)(ar{ au}\gamma_{\mu}\gamma_5 au)$	\mathbf{C}
CS_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\tau}\tau)$	\mathbf{C}
CSp_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{ au} au)$	\mathbf{C}
CP_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\tau}\gamma_5 au)$	\mathbf{C}
CPp_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{ au}\gamma_5 au)$	\mathbf{C}
C7_sd	$\frac{4G_F}{4G_F}V_{\nu}V^* = \frac{e}{m} (\bar{d}_{\tau}\sigma^{\mu\nu}s_{D})F$	\mathbf{C}
C7p_sd	$\frac{\sqrt{2}}{\sqrt{2}}V_{ts}V_{td}\frac{16\pi^{2}}{16\pi^{2}}m_{s}(\bar{d}_{L}G^{-3}R)\Gamma_{\mu\nu} = \frac{4G_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}\frac{e}{16\pi^{2}}m_{s}(\bar{d}_{R}\sigma^{\mu\nu}s_{L})F_{\mu\nu}$	\mathbf{C}
C8_sd	$\frac{4\tilde{G}_{F}^{r}}{\sqrt{2}}V_{ts}V_{td}^{*}\frac{g_{s}}{16\pi^{2}}m_{s}(\bar{d}_{L}\sigma^{\mu\nu}T^{a}s_{R})G_{\mu\nu}^{a}$	\mathbf{C}
C8p_sd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{g_s}{16\pi^2}m_s(\bar{d}_R\sigma^{\mu\nu}T^as_L)G_{\mu\nu}^a$	\mathbf{C}
CVLL_sdss	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{s}_L\gamma_\mu s_L)$	\mathbf{C}
CVLR_sdss	$rac{4raket{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
CVRL_sdss	$rac{4reve{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{s}_L\gamma_\mu s_L)$	\mathbf{C}
CVRR_sdss	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{s}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
CSLL_sdss	$rac{4reve{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Rs_L)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
CSLR_sdss	$\frac{4G_F}{\overline{C}}V_{ts}V_{ts}^*(\bar{d}_{BSI})(\bar{s}_{ISB})$	\mathbf{C}
CSRL_sdss	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{s}_Rs_L)$	\mathbf{C}
CSRR_sdss	$\frac{4G_F^2}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L s_R)(\bar{s}_L s_R)$	\mathbf{C}
CTLL_sdss	$ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L s_R)(\bar{s}_R s_L) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L s_R)(\bar{s}_L s_R) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R \sigma^{\mu\nu} s_L)(\bar{s}_R \sigma_{\mu\nu} s_L) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L \sigma^{\mu\nu} s_R)(\bar{s}_L \sigma_{\mu\nu} s_R) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L \sigma^{\mu\nu} s_R)(\bar{s}_L \sigma_{\mu\nu} s_R) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L \sigma^{\mu\nu} s_R)(\bar{s}_L \sigma_{\mu\nu} s_R) $	\mathbf{C}
CTRR_sdss	$\frac{4G_F}{\bar{\omega}}V_{ts}V_{td}^*(\bar{d}_L\sigma^{\mu u}s_R)(\bar{s}_L\sigma_{\mu u}s_R)$	C
- CVLL_sddd	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\gamma^\mu s_L)(ar{d}_L\gamma_\mu d_L)$	$^{\mathrm{C}}$
CVLR_sddd	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\gamma^\mu s_L)(ar{d}_R\gamma_\mu d_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
CVRL_sddd	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{d}_L\gamma_\mu d_L)$	$^{\mathrm{C}}$
CVRR_sddd	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{d}_R\gamma_\mu d_R)$	$^{\mathrm{C}}$
CSLL_sddd	$rac{4reve{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Rs_L)(ar{d}_Rd_L)$	$^{\mathrm{C}}$
CSLR_sddd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(d_Rs_L)(d_Ld_R)$	$^{\mathrm{C}}$
CSRL_sddd	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Ls_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$
CSRR_sddd	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Ls_R)(ar{d}_Ld_R)$	$^{\mathrm{C}}$
CTLL_sddd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\sigma^{\mu\nu}s_L)(\bar{d}_R\sigma_{\mu\nu}d_L)$	$^{\mathrm{C}}$
CTRR_sddd	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\sigma^{\mu u}s_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
CVLL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{u}_L\gamma_\mu u_L)$	$^{\mathrm{C}}$
CVLR_sduu	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\gamma^\mu s_L)(ar{u}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
CVRL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{u}_L\gamma_\mu u_L)$	$^{\mathrm{C}}$
CVRR_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{u}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
CSLL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{u}_Ru_L)$	$^{\mathrm{C}}$
CSLR_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{u}_Lu_R)$	$^{\mathrm{C}}$
CSRL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{u}_Ru_L)$	$^{\mathrm{C}}$
CSRR_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{u}_Lu_R)$	$^{\mathrm{C}}$
CTLL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\sigma^{\mu\nu}s_L)(\bar{u}_R\sigma_{\mu\nu}u_L)$	$^{\mathrm{C}}$
CTRR_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\sigma^{\mu\nu}s_R)(\bar{u}_L\sigma_{\mu\nu}u_R)$	$^{\mathrm{C}}$
CVLLt_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha\gamma^\mu s_L^eta)(ar{u}_L^eta\gamma_\mu u_L^lpha)$	$^{\mathrm{C}}$
CVLRt_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha\gamma^\mu s_L^eta)(ar{u}_R^eta\gamma_\mu u_R^lpha)$	\mathbf{C}
CVRLt_sduu	$rac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha\gamma^\mu s_R^eta)(ar{u}_L^eta\gamma_\mu u_L^lpha)$	\mathbf{C}
CVRRt_sduu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R^{\alpha}\gamma^{\mu}s_R^{\beta})(\bar{u}_R^{\beta}\gamma_{\mu}u_R^{\alpha})$	\mathbf{C}
CSLLt_sduu	$\frac{4\ddot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R^{\alpha}s_L^{\beta})(\bar{u}_R^{\beta}u_L^{\alpha})$	$^{\mathrm{C}}$
CSLRt_sduu	$rac{4 ilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha s_L^eta)(ar{u}_L^eta u_R^lpha)$	$^{\mathrm{C}}$
CSRLt_sduu	$rac{4G_F^2}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha s_R^eta)(ar{u}_R^eta u_L^lpha)$	$^{\mathrm{C}}$
CSRRt_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha s_R^eta)(ar{u}_L^eta u_R^lpha)$	\mathbf{C}
CTLLt_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha\sigma^{\mu u}s_L^eta)(ar{u}_R^eta\sigma_{\mu u}u_L^lpha)$	$^{\mathrm{C}}$
CTRRt_sduu	$\frac{^{4G_F}}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^\alpha\sigma^{\mu\nu}s_R^\beta)(\bar{u}_L^\beta\sigma_{\mu\nu}u_R^\alpha)$	$^{\mathrm{C}}$
CVLL_sdcc	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\gamma^\mu s_L)(ar{c}_L\gamma_\mu c_L)$	\mathbf{C}
CVLR_sdcc	$\frac{4\tilde{G_F}}{V}V V^*(\bar{d}_T\gamma^{\mu}s_T)(\bar{c}_D\gamma^{\mu}c_D)$	\mathbf{C}
CVRL_sdcc	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{c}_L\gamma_\mu c_L)$	\mathbf{C}
CVRR_sdcc	$rac{4Q_F^2}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{c}_R\gamma_\mu c_R)$	\mathbf{C}
CSLL_sdcc	$rac{4reve{G}_F^2}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Rs_L)(ar{c}_Rc_L)$	\mathbf{C}
CSLR_sdcc	$\begin{array}{c} \frac{\sqrt{2}}{\sqrt{2}} V_{ts} V_{td}^*(d_L f^* S_L) (c_R \gamma_\mu c_R) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_R \gamma^\mu s_R) (\bar{c}_L \gamma_\mu c_L) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_R \gamma^\mu s_R) (\bar{c}_R \gamma_\mu c_R) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_R s_L) (\bar{c}_R c_L) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_R s_L) (\bar{c}_L c_R) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_L s_R) (\bar{c}_R c_L) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_L s_R) (\bar{c}_L c_R) \end{array}$	\mathbf{C}
CSRL_sdcc	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L s_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$
CSRR_sdcc	$rac{4reve{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L s_R)(ar{c}_L c_R)$	$^{\mathrm{C}}$
	v ~	

WC name	Operator	Type
CTLL_sdcc	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\sigma^{\mu\nu}s_L)(\bar{c}_R\sigma_{\mu\nu}c_L)$	C
CTRR_sdcc	$rac{4reve{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\sigma^{\mu u}s_R)(ar{c}_L\sigma_{\mu u}c_R)$	\mathbf{C}
CVLLt_sdcc	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha\gamma^\mu s_L^eta)(ar{c}_L^eta\gamma_\mu c_L^lpha)$	\mathbf{C}
CVLRt_sdcc	$rac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha\gamma^\mu s_L^eta)(ar{c}_R^eta\gamma_\mu c_R^lpha)$	\mathbf{C}
CVRLt_sdcc	$rac{4ar{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha\gamma^\mu s_R^eta)(ar{c}_L^eta\gamma_\mu c_L^lpha)$	\mathbf{C}
CVRRt_sdcc	$rac{4ar{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha\gamma^\mu s_R^eta)(ar{c}_R^eta\gamma_\mu c_R^lpha)$	\mathbf{C}
CSLLt_sdcc	$rac{4ar{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha s_L^eta)(ar{c}_R^eta c_L^lpha)$	\mathbf{C}
CSLRt_sdcc	$rac{4ar{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha s_L^eta)(ar{c}_L^eta c_R^lpha)$	\mathbf{C}
CSRLt_sdcc	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha s_R^eta)(ar{c}_R^eta c_L^lpha)$	\mathbf{C}
CSRRt_sdcc	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L^lpha s_R^eta)(ar{c}_L^eta c_R^lpha)$	\mathbf{C}
CTLLt_sdcc	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha\sigma^{\mu u}s_L^eta)(ar{c}_R^eta\sigma_{\mu u}c_L^lpha)$	\mathbf{C}
CTRRt_sdcc	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^\alpha\sigma^{\mu\nu}s_R^\beta)(\bar{c}_L^\beta\sigma_{\mu\nu}c_R^\alpha)$	С

cu

WC name	Operator	Type
C9_cuee	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}(\bar{u}_L\gamma^{\mu}c_L)(\bar{e}\gamma_{\mu}e)$	С
C9p_cuee	$\frac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}(\bar{u}_R\gamma^{\mu}c_R)(\bar{e}\gamma_{\mu}e)$	\mathbf{C}
C10_cuee	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}(\bar{u}_L\gamma^{\mu}c_L)(\bar{e}\gamma_{\mu}\gamma_5 e)$	\mathbf{C}
C10p_cuee	$rac{4 { m G}_F}{\sqrt{2}} V_{cb}^* V_{ub} rac{e^2}{16 \pi^2} (ar{u}_R \gamma^\mu c_R) (ar{e} \gamma_\mu \gamma_5 e)$	\mathbf{C}
CS_cuee	$\frac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Lc_R)(\bar{e}e)$	\mathbf{C}
CSp_cuee	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Rc_L)(\bar{e}e)$	\mathbf{C}
CP_cuee	$\frac{4 \tilde{G}_F}{\sqrt{2}} V_{cb}^* V_{ub} \frac{e^2}{16\pi^2} m_c(\bar{u}_L c_R) (\bar{e} \gamma_5 e)$	\mathbf{C}
CPp_cuee	$rac{4ar{G_F}}{\sqrt{2}}V_{cb}^*V_{ub}rac{e^2}{16\pi^2}m_c(ar{u}_Rc_L)(ar{e}\gamma_5e)$	\mathbf{C}
C9_cumumu	$\frac{4\tilde{G}_{F}}{\sqrt{2}}V_{cb}^{*}V_{ub}\frac{e^{2}}{16\pi^{2}}(\bar{u}_{L}\gamma^{\mu}c_{L})(\bar{\mu}\gamma_{\mu}\mu)$	\mathbf{C}
C9p_cumumu	$\frac{4\tilde{G}_{F}}{\sqrt{2}}V_{cb}^{*}V_{ub}\frac{e^{2}}{16\pi^{2}}(\bar{u}_{R}\gamma^{\mu}c_{R})(\bar{\mu}\gamma_{\mu}\mu)$	\mathbf{C}
C10_cumumu	$\frac{4\tilde{G}_{F}}{\sqrt{2}}V_{cb}^{*}V_{ub}\frac{e^{2}}{16\pi^{2}}(\bar{u}_{L}\gamma^{\mu}c_{L})(\bar{\mu}\gamma_{\mu}\gamma_{5}\mu)$	\mathbf{C}
C10p_cumumu	$\frac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}(\bar{u}_R\gamma^{\mu}c_R)(\bar{\mu}\gamma_{\mu}\gamma_5\mu)$	\mathbf{C}
CS_cumumu	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Lc_R)(\bar{\mu}\mu)$	\mathbf{C}
CSp_cumumu	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Rc_L)(\bar{\mu}\mu)$	\mathbf{C}
CP_cumumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Lc_R)(\bar{\mu}\gamma_5\mu)$	\mathbf{C}
CPp_cumumu	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Rc_L)(\bar{\mu}\gamma_5\mu)$	\mathbf{C}
C9_cutautau	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}rac{e^2}{16\pi^2}(ar{u}_L\gamma^{\mu}c_L)(ar{ au}\gamma_{\mu} au)$	\mathbf{C}
C9p_cutautau	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}rac{e^2}{16\pi^2}(ar{u}_R\gamma^{\mu}c_R)(ar{ au}\gamma_{\mu} au)$	\mathbf{C}
C10_cutautau	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}rac{e^2}{16\pi^2}(ar{u}_L\gamma^{\mu}c_L)(ar{ au}\gamma_{\mu}\gamma_5 au)$	\mathbf{C}

WC name	Operator	Type
C10p_cutautau	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}rac{e^2}{16\pi^2}(ar{u}_R\gamma^{\mu}c_R)(ar{ au}\gamma_{\mu}\gamma_5 au)$	С
CS_cutautau	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}rac{e^2}{16\pi^2}m_c(\bar{u}_Lc_R)(\bar{ au} au)$	\mathbf{C}
CSp_cutautau	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Rc_L)(\bar{\tau} au)$	\mathbf{C}
CP_cutautau	$\frac{4\dot{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Lc_R)(\bar{\tau}\gamma_5\tau)$	\mathbf{C}
CPp_cutautau	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e^2}{16\pi^2}m_c(\bar{u}_Rc_L)(\bar{\tau}\gamma_5\tau)$	\mathbf{C}
C7_cu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e}{16\pi^2}m_c(\bar{u}_L\sigma^{\mu\nu}c_R)F_{\mu\nu}$	\mathbf{C}
C7p_cu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{e}{16\pi^2}m_c(\bar{u}_R\sigma^{\mu\nu}c_L)F_{\mu\nu}$	\mathbf{C}
C8_cu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}\frac{g_s}{16\pi^2}m_c(\bar{u}_L\sigma^{\mu\nu}T^ac_R)G^a_{\mu\nu}$	\mathbf{C}
C8p_cu	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}rac{g_s}{16\pi^2}m_c(\bar{u}_R\sigma^{\mu u}T^ac_L)G_{\mu u}^a$	\mathbf{C}
CVLL_cucc	$rac{4ar{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L\gamma^\mu c_L)(ar{c}_L\gamma_\mu c_L)$	\mathbf{C}
CVLR_cucc	$rac{4ar{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L\gamma^\mu c_L)(ar{c}_R\gamma_\mu c_R)$	\mathbf{C}
CVRL_cucc	$\frac{4\overline{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{c}_L\gamma_\mu c_L)$	\mathbf{C}
CVRR_cucc	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{c}_R\gamma_\mu c_R)$	\mathbf{C}
CSLL_cucc	$\frac{4\overline{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{c}_Rc_L)$	\mathbf{C}
CSLR_cucc	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{c}_Lc_R)$	$^{\mathrm{C}}$
CSRL_cucc	$\frac{4\overleftarrow{C}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Lc_R)(\bar{c}_Rc_L)$	$^{\mathrm{C}}$
CSRR_cucc	$\frac{4GF}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Lc_R)(\bar{c}_Lc_R)$	$^{\mathrm{C}}$
CTLL_cucc	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\sigma^{\mu\nu}c_L)(\bar{c}_R\sigma_{\mu\nu}c_L)$	$^{\mathrm{C}}$
CTRR_cucc	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L\sigma^{\mu\nu}c_R)(\bar{c}_L\sigma_{\mu\nu}c_R)$	\mathbf{C}
CVLL_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L\gamma^\mu c_L)(\bar{u}_L\gamma_\mu u_L)$	\mathbf{C}
CVLR_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L\gamma^\mu c_L)(\bar{u}_R\gamma_\mu u_R)$	\mathbf{C}
CVRL_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{u}_L\gamma_\mu u_L)$	\mathbf{C}
CVRR_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{u}_R\gamma_\mu u_R)$	\mathbf{C}
CSLL_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{u}_Ru_L)$	\mathbf{C}
CSLR_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{u}_Lu_R)$	\mathbf{C}
CSRL_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Lc_R)(\bar{u}_Ru_L)$	$^{\mathrm{C}}$
CSRR_cuuu	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L c_R)(\bar{u}_L u_R)$	$^{\mathrm{C}}$
CTLL_cuuu	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\sigma^{\mu\nu}c_L)(\bar{u}_R\sigma_{\mu\nu}u_L)$	$^{\mathrm{C}}$
CTRR_cuuu	$\frac{\sqrt[4]{G_E}}{\sqrt[4]{2}}V_{cb}^*V_{ub}(\bar{u}_L\sigma^{\mu\nu}c_R)(\bar{u}_L\sigma_{\mu\nu}u_R)$	$^{\mathrm{C}}$
CVLL_cudd	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L\gamma^\mu c_L)(\bar{d}_L\gamma_\mu d_L)$	$^{\mathrm{C}}$
CVLR_cudd	$rac{4ar{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L\gamma^\mu c_L)(ar{d}_R\gamma_\mu d_R)$	\mathbf{C}
CVRL_cudd	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{d}_L\gamma_\mu d_L)$	\mathbf{C}
CVRR_cudd	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{d}_R\gamma_\mu d_R)$	\mathbf{C}
CSLL_cudd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{d}_Rd_L)$	\mathbf{C}
CSLR_cudd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{d}_Ld_R)$	\mathbf{C}
CSRL_cudd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Lc_R)(\bar{d}_Rd_L)$	\mathbf{C}

WC name	Operator	Type
CSRR_cudd	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Lc_R)(\bar{d}_Ld_R)$	C
CTLL_cudd	$rac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_R\sigma^{\mu u}c_L)(ar{d}_R\sigma_{\mu u}d_L)$	\mathbf{C}
CTRR_cudd	$rac{4reve{G_F}}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L\sigma^{\mu u}c_R)(ar{d}_L\sigma_{\mu u}d_R)$	\mathbf{C}
CVLLt_cudd	$rac{4\widetilde{G_F}}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L^lpha\gamma^\mu c_L^eta)(ar{d}_L^eta\gamma_\mu d_L^lpha)$	\mathbf{C}
CVLRt_cudd	$rac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L^lpha\gamma^\mu c_L^eta)(ar{d}_R^eta\gamma_\mu d_R^lpha)$	\mathbf{C}
CVRLt_cudd	$rac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_R^lpha\gamma^\mu c_R^eta)(ar{d}_L^eta\gamma_\mu d_L^lpha)$	\mathbf{C}
CVRRt_cudd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R^{\alpha}\gamma^{\mu}c_R^{\beta})(\bar{d}_R^{\beta}\gamma_{\mu}d_R^{\alpha})$	\mathbf{C}
CSLLt_cudd	$rac{4\widetilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_R^lpha c_L^eta)(ar{d}_R^eta d_L^lpha)$	\mathbf{C}
CSLRt_cudd	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_R^lpha c_L^eta)(ar{d}_L^eta d_R^lpha)$	\mathbf{C}
CSRLt_cudd	$rac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L^lpha c_R^eta)(ar{d}_R^eta d_L^lpha)$	\mathbf{C}
CSRRt_cudd	$rac{4G_F^2}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L^lpha c_R^eta)(ar{d}_L^eta d_R^lpha)$	\mathbf{C}
CTLLt_cudd	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_R^lpha\sigma^{\mu u}c_L^eta)(ar{d}_R^eta\sigma_{\mu u}d_L^lpha)$	\mathbf{C}
CTRRt_cudd	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L^lpha\sigma^{\mu u}c_R^{ar{eta}})(ar{d}_L^eta\sigma_{\mu u}d_R^lpha)$	\mathbf{C}
CVLL_cuss	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L\gamma^\mu c_L)(ar{s}_L\gamma_\mu s_L)$	\mathbf{C}
CVLR_cuss	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L\gamma^\mu c_L)(\bar{s}_R\gamma_\mu s_R)$	\mathbf{C}
CVRL_cuss	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{s}_L\gamma_\mu s_L)$	\mathbf{C}
CVRR_cuss	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R\gamma^\mu c_R)(\bar{s}_R\gamma_\mu s_R)$	\mathbf{C}
CSLL_cuss	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{s}_Rs_L)$	$^{\mathrm{C}}$
CSLR_cuss	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Rc_L)(\bar{s}_Ls_R)$	\mathbf{C}
CSRL_cuss	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_Lc_R)(\bar{s}_Rs_L)$	\mathbf{C}
CSRR_cuss	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_Lc_R)(ar{s}_Ls_R)$	\mathbf{C}
CTLL_cuss	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_R\sigma^{\mu u}c_L)(ar{s}_R\sigma_{\mu u}s_L)$	$^{\mathrm{C}}$
CTRR_cuss	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L\sigma^{\mu u}c_R)(ar{s}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
CVLLt_cuss	$rac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L^lpha\gamma^\mu c_L^eta)(ar{s}_L^eta\gamma_\mu s_L^lpha)$	\mathbf{C}
CVLRt_cuss	$rac{4ar{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_L^lpha\gamma^\mu c_L^eta)(ar{s}_R^eta\gamma_\mu s_R^lpha)$	$^{\mathrm{C}}$
CVRLt_cuss	$rac{4 \dot{G}_F}{\sqrt{2}} V_{cb}^* V_{ub} (ar{u}_R^lpha \gamma^\mu c_R^eta) (ar{s}_L^eta \gamma_\mu s_L^lpha)$	\mathbf{C}
CVRRt_cuss	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R^{\alpha}\gamma^{\mu}c_R^{\beta})(\bar{s}_R^{\beta}\gamma_{\mu}s_R^{\alpha})$	$^{\mathrm{C}}$
CSLLt_cuss	$rac{4ar{G}_F}{\sqrt{2}}V_{cb}^*V_{ub}(ar{u}_R^lpha c_L^eta)(ar{s}_R^eta s_L^lpha)$	\mathbf{C}
CSLRt_cuss	$rac{4 G_F}{\sqrt{2}} V_{cb}^* V_{ub} (ar{u}_R^lpha c_L^eta) (ar{s}_L^eta s_R^lpha)$	\mathbf{C}
CSRLt_cuss	$\frac{4G_F}{\overline{c}}V_{*l}^*V_{ob}(\bar{u}_L^{\alpha}c_D^{\beta})(\bar{s}_D^{\beta}s_L^{\alpha})$	\mathbf{C}
CSRRt_cuss	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L^{lpha}c_R^{eta})(\bar{s}_L^{eta}s_R^{lpha})$	\mathbf{C}
CTLLt_cuss	$\frac{4G_F}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_R^{\alpha}\sigma^{\mu\nu}c_L^{\beta})(\bar{s}_R^{\beta}\sigma_{\mu\nu}s_L^{\alpha})$	\mathbf{C}
CTRRt_cuss	$\frac{\sqrt[4]{G_F}}{\sqrt{2}}V_{cb}^*V_{ub}(\bar{u}_L^\alpha\sigma^{\mu\nu}c_R^\beta)(\bar{s}_L^\beta\sigma_{\mu\nu}s_R^\alpha)$	\mathbf{C}

sdnunu

WC name	Operator	Type
CL_sdnuenue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_e)$	С
CL_sdnumunumu	$rac{4 G_F}{\sqrt{2}} V_{td} V_{ts}^* rac{e^2}{16 \pi^2} (\bar{s}_L \gamma^\mu d_L) (\bar{\nu}_\mu \gamma_\mu (1 - \gamma_5) \nu_\mu)$	\mathbf{C}
CL_sdnutaunutau	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_{\tau})$	\mathbf{C}
CL_sdnuenumu	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_e)$	\mathbf{C}
CL_sdnumunue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	\mathbf{C}
CL_sdnumunutau	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu d_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5)\nu_\mu)$	\mathbf{C}
CL_sdnutaunumu	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu d_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5)\nu_\tau)$	\mathbf{C}
CL_sdnuenutau	$rac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*rac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{ u}_{ au}\gamma_{\mu}(1-\gamma_5) u_e)$	\mathbf{C}
CL_sdnutaunue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_{\tau})$	\mathbf{C}
CR_sdnuenue	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_e)$	\mathbf{C}
CR_sdnumunumu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	\mathbf{C}
CR_sdnutaunutau	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_{\tau})$	\mathbf{C}
CR_sdnuenumu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_e)$	\mathbf{C}
CR_sdnumunue	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	\mathbf{C}
CR_sdnumunutau	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	\mathbf{C}
CR_sdnutaunumu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_{ au})$	\mathbf{C}
CR_sdnuenutau	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_e)$	\mathbf{C}
CR_sdnutaunue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^{\mu} d_R) (\bar{\nu}_e \gamma_{\mu} (1 - \gamma_5) \nu_{\tau})$	\mathbf{C}

sdemu

WC name	Operator	Type
C9_sdemu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\mu}\gamma_{\mu}e)$	C
C9p_sdemu	$\frac{4\ddot{G_F}}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{\mu}\gamma_{\mu}e)$	\mathbf{C}
C10_sdemu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_L\gamma^{\mu}s_L)(ar{\mu}\gamma_{\mu}\gamma_5 e)$	\mathbf{C}
C10p_sdemu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{\mu}\gamma_{\mu}\gamma_5 e)$	\mathbf{C}
CS_sdemu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}e)$	\mathbf{C}
CSp_sdemu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{\mu}e)$	\mathbf{C}
CP_sdemu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}\gamma_5 e)$	\mathbf{C}
CPp_sdemu	$\frac{4\ddot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{\mu}\gamma_5 e)$	\mathbf{C}

sdmue

WC name	Operator	Type
C9_sdmue	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_L\gamma^\mu s_L)(ar{e}\gamma_\mu\mu)$	С
C9p_sdmue	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_R\gamma^{\mu}s_R)(ar{e}\gamma_{\mu}\mu)$	\mathbf{C}
C10_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{e}\gamma_{\mu}\gamma_5\mu)$	\mathbf{C}
C10p_sdmue	$rac{4\ddot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_R\gamma^\mu s_R)(ar{e}\gamma_\mu\gamma_5\mu)$	\mathbf{C}
CS_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e}\mu)$	\mathbf{C}
CSp_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{e}\mu)$	\mathbf{C}
CP_sdmue	$\frac{4\dot{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}\frac{e^{2}}{16\pi^{2}}m_{s}(\bar{d}_{L}s_{R})(\bar{e}\gamma_{5}\mu)$	\mathbf{C}
CPp_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{e}\gamma_5\mu)$	C

sdetau

WC name	Operator	Type
C9_sdetau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\tau}\gamma_{\mu}e)$	$\overline{\mathbf{C}}$
C9p_sdetau	$\frac{4\dot{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}\frac{e^{2}}{16\pi^{2}}(\bar{d}_{R}\gamma^{\mu}s_{R})(\bar{\tau}\gamma_{\mu}e)$	$^{\mathrm{C}}$
C10_sdetau	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_L\gamma^{\mu}s_L)(ar{ au}\gamma_{\mu}\gamma_5 e)$	$^{\mathrm{C}}$
C10p_sdetau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{\tau}\gamma_{\mu}\gamma_5 e)$	$^{\mathrm{C}}$
CS_sdetau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\tau}e)$	$^{\mathrm{C}}$
CSp_sdetau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{\tau}e)$	$^{\mathrm{C}}$
CP_sdetau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\tau}\gamma_5 e)$	$^{\mathrm{C}}$
CPp_sdetau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{\tau}\gamma_5 e)$	C

sdtaue

WC name	Operator	Type
C9_sdtaue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{e}\gamma_{\mu}\tau)$	$^{\mathrm{C}}$
C9p_sdtaue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{e}\gamma_{\mu} au)$	\mathbf{C}
C10_sdtaue	$rac{4 G_F}{\sqrt{2}} V_{ts} V_{td}^* rac{e^2}{16 \pi^2} (ar{d}_L \gamma^\mu s_L) (ar{e} \gamma_\mu \gamma_5 au)$	\mathbf{C}
C10p_sdtaue	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_R\gamma^{\mu}s_R)(ar{e}\gamma_{\mu}\gamma_5 au)$	$^{\mathrm{C}}$
CS_sdtaue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e} au)$	\mathbf{C}
CSp_sdtaue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{e} au)$	\mathbf{C}
CP_sdtaue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e}\gamma_5 au)$	\mathbf{C}
CPp_sdtaue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{e}\gamma_5\tau)$	C

sdmutau

WC name	Operator	Type
C9_sdmutau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\tau}\gamma_{\mu}\mu)$	С
C9p_sdmutau	$rac{4 { m G}_F}{\sqrt{2}} V_{ts} V_{td}^* rac{e^2}{16 \pi^2} (ar{d}_R \gamma^\mu s_R) (ar{ au} \gamma_\mu \mu)$	\mathbf{C}
C10_sdmutau	$rac{4\dot{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}rac{e^{2}}{16\pi^{2}}(ar{d}_{L}\gamma^{\mu}s_{L})(ar{ au}\gamma_{\mu}\gamma_{5}\mu)$	\mathbf{C}
C10p_sdmutau	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_R\gamma^{\mu}s_R)(ar{ au}\gamma_{\mu}\gamma_5\mu)$	\mathbf{C}
CS_sdmutau	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{ au}\mu)$	\mathbf{C}
CSp_sdmutau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{\tau}\mu)$	\mathbf{C}
CP_sdmutau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\tau}\gamma_5\mu)$	\mathbf{C}
CPp_sdmutau	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{\tau}\gamma_5\mu)$	С

sdtaumu

WC name	Operator	Type
C9_sdtaumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\mu}\gamma_{\mu}\tau)$	С
C9p_sdtaumu	$rac{4\dot{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}rac{e^{2}}{16\pi^{2}}(ar{d}_{R}\gamma^{\mu}s_{R})(ar{\mu}\gamma_{\mu} au)$	$^{\mathrm{C}}$
C10_sdtaumu	$rac{4 ilde{G}_F}{\sqrt{2}} V_{ts} V_{td}^* rac{e^2}{16 \pi^2} (ar{d}_L \gamma^\mu s_L) (ar{\mu} \gamma_\mu \gamma_5 au)$	$^{\mathrm{C}}$
C10p_sdtaumu	$rac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_R\gamma^\mu s_R)(ar{\mu}\gamma_\mu\gamma_5 au)$	$^{\mathrm{C}}$
CS_sdtaumu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}m_s(ar{d}_L s_R)(ar{\mu} au)$	\mathbf{C}
CSp_sdtaumu	$rac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}m_s(ar{d}_R s_L)(ar{\mu} au)$	$^{\mathrm{C}}$
CP_sdtaumu	$rac{4ar{G}_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}m_s(ar{d}_Ls_R)(ar{\mu}\gamma_5 au)$	\mathbf{C}
CPp_sdtaumu	$rac{4\dot{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}rac{e^{2}}{16\pi^{2}}m_{s}(\bar{d}_{R}s_{L})(\bar{\mu}\gamma_{5} au)$	\mathbf{C}

usenu

WC name	Operator	Type
CVL_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	
CVR_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^{\mu}s_R)(\bar{e}_L\gamma_{\mu}\nu_{eL}) \\ -\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Ls_R)(\bar{e}_R\nu_{eL})$	\mathbf{C}
CSR_suenue	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_Ls_R)(ar{e}_R u_{eL})$	\mathbf{C}
CSL_suenue	$-rac{4ar{G}_F}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{e}_R u_{eL})$	\mathbf{C}
CT_suenue	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{eL})$	\mathbf{C}
CVL_suenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_suenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_R\gamma^\mu s_R)(ar{e}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_suenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_Ls_R)(ar{e}_R u_{\mu L})$	\mathbf{C}
CSL_suenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{e}_R u_{\mu L})$	\mathbf{C}

WC name	Operator	Type
CT_suenumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu}s_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_suenutau	$-rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{\mu L}) \ -rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{ au L})$	$^{\mathrm{C}}$
CVR_suenutau	$-\frac{4\overset{C}{N_T}}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^{\mu}s_R)(\bar{e}_L\gamma_{\mu}\nu_{\tau L})$	$^{\mathrm{C}}$
CSR_suenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_L s_R)(ar{e}_R u_{ au L})$	$^{\mathrm{C}}$
CSL_suenutau	$-rac{4ar{G}_F}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{e}_R u_{ au L})$	\mathbf{C}
CT_suenutau	$-rac{4ar{G}_F}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{ au L})$	$^{\mathrm{C}}$

csenu

WC name	Operator	Type
CVL_scenue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^{\mu}s_L)(\bar{e}_L\gamma_{\mu}\nu_{eL})$	C
CVR_scenue	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu u_{eL})$	$^{\mathrm{C}}$
CSR_scenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{e}_R \nu_{eL})$	$^{\mathrm{C}}$
CSL_scenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{e}_R\nu_{eL})$	$^{\mathrm{C}}$
CT_scenue	$-rac{4ar{Q}_F}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{eL})$	$^{\mathrm{C}}$
CVL_scenumu	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{\mu L})$	$^{\mathrm{C}}$
CVR_scenumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	$^{\mathrm{C}}$
CSR_scenumu	$-\frac{4G_F^2}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{e}_R \nu_{\mu L})$	$^{\mathrm{C}}$
CSL_scenumu	$-\frac{4\check{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{e}_R u_{\mu L})$	\mathbf{C}
CT_scenumu	$-rac{4rac{ec{G}_F}{\sqrt{2}}}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{\mu L})$	$^{\mathrm{C}}$
CVL_scenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{ au L})$	$^{\mathrm{C}}$
CVR_scenutau	$-rac{4reve{G_F}}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{e}_L\gamma_\mu u_{ au L})$	$^{\mathrm{C}}$
CSR_scenutau	$-rac{4\check{G_F}}{\sqrt{2}}V_{cs}(\bar{c}_Ls_R)(\bar{e}_R u_{ au L})$	$^{\mathrm{C}}$
CSL_scenutau	$-rac{4\overset{\sim}{Q_F}}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{e}_R u_{\tau L})$	$^{\mathrm{C}}$
CT_scenutau	$-rac{4ar{G}_F^c}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{ au L})$	С

cdenu

WC name	Operator	Type
CVL_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	
CVR_dcenue	$-\frac{4G_F}{\sqrt{c}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	\mathbf{C}
CSR_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{e}_R\nu_{eL})$	\mathbf{C}
CSL_dcenue	$-rac{4G_F}{\sqrt{2}}V_{cd}(ar{c}_L d_R)(ar{e}_R u_{eL}) \ -rac{4G_F}{\sqrt{2}}V_{cd}(ar{c}_R d_L)(ar{e}_R u_{eL})$	\mathbf{C}
CT_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu}d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	\mathbf{C}
CVL_dcenumu	$-rac{4 {ar G_F}}{\sqrt{2}} V_{cd} (ar c_L \gamma^\mu d_L) (ar e_L \gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_dcenumu	$-rac{4reve{G_F}}{\sqrt{2}}V_{cd}(ar{c}_R\gamma^\mu d_R)(ar{e}_L\gamma_\mu u_{\mu L})$	\mathbf{C}

WC name	Operator	Type
CSR_dcenumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{e}_R\nu_{\mu L})$	C
CSL_dcenumu	$-rac{4G_F}{\sqrt{2}}V_{cd}(ar{c}_L d_R)(ar{e}_R u_{\mu L}) \ -rac{4G_F}{\sqrt{2}}V_{cd}(ar{c}_R d_L)(ar{e}_R u_{\mu L})$	\mathbf{C}
CT_dcenumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu}d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	\mathbf{C}
CVL_dcenutau	$-rac{4ar{G}_F}{\sqrt{2}}V_{cd}(ar{c}_L\gamma^\mu d_L)(ar{e}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CVR_dcenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{cd}(ar{c}_R\gamma^\mu d_R)(ar{e}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CSR_dcenutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{e}_R\nu_{\tau L})$	\mathbf{C}
CSL_dcenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{cd}(ar{c}_Rd_L)(ar{e}_R u_{ au L})$	\mathbf{C}
CT_dcenutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu}d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\tau L})$	С

usmunu

WC name	Operator	Type
CVL_sumunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^{\mu}s_L)(\bar{\mu}_L\gamma_{\mu}\nu_{eL})$	С
CVR_sumunue	$-rac{4\check{G}_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu u_{eL})$	\mathbf{C}
CSR_sumunue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\mu}_R \nu_{eL})$	\mathbf{C}
CSL_sumunue	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{\mu}_R u_{eL})$	\mathbf{C}
CT_sumunue	$-rac{4ar{G}_F}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{eL})$	\mathbf{C}
CVL_sumunumu	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	\mathbf{C}
CVR_sumunumu	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_sumunumu	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\mu}_R u_{\mu L})$	\mathbf{C}
CSL_sumunumu	$-rac{4\widetilde{G}_F}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{\mu}_R u_{\mu L})$	\mathbf{C}
CT_sumunumu	$-rac{4\check{G}_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu u}s_L)(\bar{\mu}_R\sigma_{\mu u} u_{\mu L})$	\mathbf{C}
CVL_sumunutau	$-rac{4\check{G}_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu u_{\tau L})$	\mathbf{C}
CVR_sumunutau	$-rac{4\check{G}_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CSR_sumunutau	$-rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_L s_R)(ar{\mu}_R u_{ au L})$	\mathbf{C}
CSL_sumunutau	$-rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{\mu}_R u_{ au L})$	\mathbf{C}
CT_sumunutau	$-rac{4\widetilde{G}_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu u}s_L)(\bar{\mu}_R\sigma_{\mu u} u_{ au L})$	\mathbf{C}

csmunu

WC name	Operator	Type
CVL_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CVR_scmunue	$-rac{4G_F^2}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{\mu}_L\gamma_\mu u_{eL})$	\mathbf{C}
CSR_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\mu}_R \nu_{eL})$	\mathbf{C}
CSL_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{\mu}_R\nu_{eL})$	\mathbf{C}
CT_scmunue	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{eL})$	\mathbf{C}

WC name	Operator	Type
CVL_scmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^{\mu}s_L)(\bar{\mu}_L\gamma_{\mu}\nu_{\mu L})$	\overline{C}
CVR_scmunumu	$-rac{4G_F^2}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{\mu}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_scmunumu	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\mu}_R \nu_{\mu L})$	\mathbf{C}
CSL_scmunumu	$-rac{4\widetilde{G}_F^c}{\sqrt{2}}V_{cs}(ar{c}_Rs_L)(ar{\mu}_R u_{\mu L})$	\mathbf{C}
CT_scmunumu	$-rac{4\widetilde{G}_F}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{\mu L})$	\mathbf{C}
CVL_scmunutau	$-rac{4 ar{G_F}}{\sqrt{2}} V_{cs} (ar{c}_L \gamma^\mu s_L) (ar{\mu}_L \gamma_\mu u_{ au L})$	\mathbf{C}
CVR_scmunutau	$-rac{4ar{G}_F}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{\mu}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CSR_scmunutau	$-rac{4 \widetilde{G_F}}{\sqrt{2}} V_{cs}(ar{c}_L s_R) (ar{\mu}_R u_{ au L})$	\mathbf{C}
CSL_scmunutau	$-rac{4\widetilde{G}_F}{\sqrt{2}}V_{cs}(ar{c}_Rs_L)(ar{\mu}_R u_{ au L})$	\mathbf{C}
CT_scmunutau	$-rac{4\check{G_F}}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{ au L})$	С

${\tt cdmunu}$

WC name	Operator	Type
CVL_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	
CVR_dcmunue	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cd}(ar{c}_R\gamma^\mu d_R)(ar{\mu}_L\gamma_\mu u_{eL})$	\mathbf{C}
CSR_dcmunue	$-rac{4\widetilde{G}_F^c}{\sqrt{2}}V_{cd}(ar{c}_Ld_R)(ar{\mu}_R u_{eL})$	\mathbf{C}
CSL_dcmunue	$-\frac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cd}(\bar{c}_Rd_L)(\bar{\mu}_R\nu_{eL})$	\mathbf{C}
CT_dcmunue	$-rac{4\check{G}_F^2}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu u}d_L)(\bar{\mu}_R\sigma_{\mu u} u_{eL})$	\mathbf{C}
CVL_dcmunumu	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cd}(ar{c}_L\gamma^\mu d_L)(ar{\mu}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_dcmunumu	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cd}(ar{c}_R\gamma^\mu d_R)(ar{\mu}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_dcmunumu	$-\frac{4\check{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{\mu}_R\nu_{\mu L})$	\mathbf{C}
CSL_dcmunumu	$-\frac{4\check{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_Rd_L)(\bar{\mu}_R\nu_{\mu L})$	\mathbf{C}
CT_dcmunumu	$-rac{4\check{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu u}d_L)(\bar{\mu}_R\sigma_{\mu u} u_{\mu L})$	\mathbf{C}
CVL_dcmunutau	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	\mathbf{C}
CVR_dcmunutau	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	\mathbf{C}
CSR_dcmunutau	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{\mu}_R\nu_{\tau L})$	\mathbf{C}
CSL_dcmunutau	$-rac{4rac{G_F}{\sqrt{2}}}{\sqrt{2}}V_{cd}(ar{c}_Rd_L)(ar{\mu}_R u_{ au L})$	\mathbf{C}
CT_dcmunutau	$-rac{4\widetilde{G}_F^c}{\sqrt{2}}V_{cd}(ar{c}_R\sigma^{\mu u}d_L)(ar{\mu}_R\sigma_{\mu u} u_{ au L})$	\mathbf{C}

ustaunu

WC name	Operator	Type
CVL_sutaunue	$-rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_L\gamma^\mu s_L)(ar{ au}_L\gamma_\mu u_{eL})$	C
CVR_sutaunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^{\mu}s_L)(\bar{\tau}_L\gamma_{\mu}\nu_{eL}) -\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^{\mu}s_R)(\bar{\tau}_L\gamma_{\mu}\nu_{eL})$	\mathbf{C}
CSR_sutaunue	$-rac{4\overset{Q}{Q_E}}{\sqrt{2}}V_{us}(ar{u}_L s_R)(ar{ au}_R u_{eL})$	$^{\mathrm{C}}$

WC name	Operator	Type
CSL_sutaunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{\tau}_R\nu_{eL})$	
CT_sutaunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu}s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	\mathbf{C}
CVL_sutaunumu	$-rac{4G_F^2}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{ au}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	\mathbf{C}
CSR_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\tau}_R \nu_{\mu L})$	\mathbf{C}
CSL_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{\tau}_R\nu_{\mu L})$	\mathbf{C}
CT_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu}s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	\mathbf{C}
CVL_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	\mathbf{C}
CVR_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	\mathbf{C}
CSR_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\tau}_R \nu_{\tau L})$	\mathbf{C}
CSL_sutaunutau	$-rac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{ au}_R u_{ au L})$	\mathbf{C}
CT_sutaunutau	$-\frac{4\bar{G}_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu}s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	С

cstaunu

WC name	Operator	Type
CVL_sctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^{\mu}s_L)(\bar{\tau}_L\gamma_{\mu}\nu_{eL})$	C
CVR_sctaunue	$-\frac{4G_F^c}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	$^{\mathrm{C}}$
CSR_sctaunue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\tau}_R \nu_{eL})$	$^{\mathrm{C}}$
CSL_sctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{\tau}_R\nu_{eL})$	\mathbf{C}
CT_sctaunue	$-rac{4\ddot{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu u}s_L)(\bar{ au}_R\sigma_{\mu u} u_{eL})$	$^{\mathrm{C}}$
CVL_sctaunumu	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{ au}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_sctaunumu	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{ au}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_sctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\tau}_R \nu_{\mu L})$	\mathbf{C}
CSL_sctaunumu	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_Rs_L)(ar{ au}_R u_{\mu L})$	\mathbf{C}
CT_sctaunumu	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{ au}_R\sigma_{\mu u} u_{\mu L})$	\mathbf{C}
CVL_sctaunutau	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{ au}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CVR_sctaunutau	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{ au}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CSR_sctaunutau	$-rac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{ au}_R u_{ au L})$	\mathbf{C}
CSL_sctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{\tau}_R\nu_{\tau L})$	\mathbf{C}
CT_sctaunutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{ au}_R\sigma_{\mu u} u_{ au L})$	$^{\mathrm{C}}$

${\tt cdtaunu}$

WC name	Operator	Type
CVL_dctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	С
CVR_dctaunue	$-rac{4\widetilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{ au}_L\gamma_\mu u_{eL})$	$^{\mathrm{C}}$
CSR_dctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{\tau}_R\nu_{eL})$	$^{\mathrm{C}}$
CSL_dctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Rd_L)(\bar{\tau}_R\nu_{eL})$	$^{\mathrm{C}}$
CT_dctaunue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu}d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	$^{\mathrm{C}}$
CVL_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	$^{\mathrm{C}}$
CVR_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	$^{\mathrm{C}}$
CSR_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{\tau}_R\nu_{\mu L})$	$^{\mathrm{C}}$
CSL_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Rd_L)(\bar{\tau}_R\nu_{\mu L})$	$^{\mathrm{C}}$
CT_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu}d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	$^{\mathrm{C}}$
CVL_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	$^{\mathrm{C}}$
CVR_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	$^{\mathrm{C}}$
CSR_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{\tau}_R\nu_{\tau L})$	$^{\mathrm{C}}$
CSL_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Rd_L)(\bar{\tau}_R\nu_{\tau L})$	$^{\mathrm{C}}$
CT_dctaunutau	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu}d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	С

udenu

WC name	Operator	Type
CVL_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	
CVR_duenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	\mathbf{C}
CSR_duenue	$-rac{4\check{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{e}_R u_{eL})$	\mathbf{C}
CSL_duenue	$-rac{4reve{G_F}}{\sqrt{2}}V_{ud}(ar{u}_Rd_L)(ar{e}_R u_{eL})$	\mathbf{C}
CT_duenue	$-rac{4reve{G_F}}{\sqrt{2}}V_{ud}(ar{u}_R\sigma^{\mu u}d_L)(ar{e}_R\sigma_{\mu u} u_{eL})$	\mathbf{C}
CVL_duenumu	$-rac{4ar{Q}_F}{\sqrt{2}}V_{ud}(ar{u}_L\gamma^\mu d_L)(ar{e}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_duenumu	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{ud}(ar{u}_R\gamma^\mu d_R)(ar{e}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_duenumu	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{ud}(ar{u}_Ld_R)(ar{e}_R u_{\mu L})$	\mathbf{C}
CSL_duenumu	$-rac{4ar{Q}_F}{\sqrt{2}}V_{ud}(ar{u}_Rd_L)(ar{e}_R u_{\mu L})$	\mathbf{C}
CT_duenumu	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{ud}(ar{u}_R\sigma^{\mu u}d_L)(ar{e}_R\sigma_{\mu u} u_{\mu L})$	\mathbf{C}
CVL_duenutau	$-rac{4ar{Q}_F}{\sqrt{2}}V_{ud}(ar{u}_L\gamma^\mu d_L)(ar{e}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CVR_duenutau	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{ud}(ar{u}_R\gamma^\mu d_R)(ar{e}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CSR_duenutau	$-\frac{4\check{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{e}_R u_{ au L})$	\mathbf{C}
CSL_duenutau	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Rd_L)(\bar{e}_R u_{\tau L})$	\mathbf{C}
CT_duenutau	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{ud}(ar{u}_R\sigma^{\mu u}d_L)(ar{e}_R\sigma_{\mu u} u_{ au L})$	С

udmunu

WC name	Operator	Type
CVL_dumunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	
CVR_dumunue	$-rac{4G_F}{\sqrt{2}}V_{ud}(ar{u}_R\gamma^\mu d_R)(ar{\mu}_L\gamma_\mu u_{eL})$	\mathbf{C}
CSR_dumunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{\mu}_R\nu_{eL})$	\mathbf{C}
CSL_dumunue	$-rac{4\ddot{G_F}}{\sqrt{2}}V_{ud}(ar{u}_Rd_L)(ar{\mu}_R u_{eL})$	\mathbf{C}
CT_dumunue	$-rac{4 \widetilde{G_F}}{\sqrt{2}} V_{ud} (ar{u}_R \sigma^{\mu u} d_L) (ar{\mu}_R \sigma_{\mu u} u_{eL})$	\mathbf{C}
CVL_dumunumu	$-rac{4reve{G_F}}{\sqrt{2}}V_{ud}(ar{u}_L\gamma^\mu d_L)(ar{\mu}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_dumunumu	$-rac{4reve{G_F}}{\sqrt{2}}V_{ud}(ar{u}_R\gamma^\mu d_R)(ar{\mu}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_dumunumu	$-rac{4\check{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{\mu}_R u_{\mu L})$	\mathbf{C}
CSL_dumunumu	$-rac{4\check{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Rd_L)(\bar{\mu}_R u_{\mu L})$	\mathbf{C}
CT_dumunumu	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu}d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	\mathbf{C}
CVL_dumunutau	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu u_{\tau L})$	\mathbf{C}
CVR_dumunutau	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu u_{\tau L})$	\mathbf{C}
CSR_dumunutau	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{\mu}_R\nu_{\tau L})$	\mathbf{C}
CSL_dumunutau	$-rac{4G_F}{\sqrt{2}}V_{ud}(ar{u}_Rd_L)(ar{\mu}_R u_{ au L})$	\mathbf{C}
CT_dumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu}d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	С

${\tt udtaunu}$

WC name	Operator	Type
CVL_dutaunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^{\mu}d_L)(\bar{\tau}_L\gamma_{\mu}\nu_{eL})$	
CVR_dutaunue	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{ud}(ar{u}_R\gamma^\mu d_R)(ar{ au}_L\gamma_\mu u_{eL})$	\mathbf{C}
CSR_dutaunue	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{\tau}_R\nu_{eL})$	\mathbf{C}
CSL_dutaunue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Rd_L)(\bar{\tau}_R\nu_{eL})$	\mathbf{C}
CT_dutaunue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu}d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	\mathbf{C}
CVL_dutaunumu	$-rac{4\widetilde{G_F}}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{ au}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_dutaunumu	$-rac{4\widetilde{G_F}}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{ au}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_dutaunumu	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{\tau}_R u_{\mu L})$	\mathbf{C}
CSL_dutaunumu	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Rd_L)(\bar{\tau}_R u_{\mu L})$	\mathbf{C}
CT_dutaunumu	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu}d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	\mathbf{C}
CVL_dutaunutau	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	\mathbf{C}
CVR_dutaunutau	$-rac{4\ddot{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{ au}_L\gamma_\mu u_{ au L})$	\mathbf{C}
CSR_dutaunutau	$-rac{4\ddot{G}_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{ au}_R u_{ au L})$	\mathbf{C}
CSL_dutaunutau	$-rac{4\overset{Q}{G_F}}{\sqrt{2}}V_{ud}(ar{u}_Rd_L)(ar{ au}_R u_{ au L})$	\mathbf{C}
CT_dutaunutau	$-\frac{4\tilde{G}_F^2}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu}d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

dF=0

WC name	Operator	Type
CG	$rac{4G_F}{\sqrt{2}}f^{ABC}G^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	R
CGtilde	$rac{4\dot{G}_F}{\sqrt{2}}f^{ABC}\widetilde{G}_{\mu}^{A u}G_{ u}^{B ho}G_{ ho}^{C\mu}$	R
C7_uu	$rac{4G_F}{\sqrt{2}}rac{e}{16\pi^2}m_uar{u}_L\sigma^{\mu u}u_RF_{\mu u}$	\mathbf{C}
C7_cc	$rac{4 \check{G}_F}{\sqrt{2}} rac{e}{16\pi^2} m_c ar{c}_L \sigma^{\mu u} c_R F_{\mu u}$	\mathbf{C}
C7_dd	$rac{4 \check{G}_F}{\sqrt{2}} rac{e}{16\pi^2} m_d ar{d}_L \sigma^{\mu u} d_R F_{\mu u}$	\mathbf{C}
C7_ss	$rac{4ar{Q}_F}{\sqrt{2}}rac{e}{16\pi^2}m_sar{s}_L\sigma^{\mu u}s_RF_{\mu u}$	\mathbf{C}
C7_ee	$rac{4 { m G}_F}{\sqrt{2}} rac{e}{16\pi^2} m_e ar{e}_L \sigma^{\mu u} e_R F_{\mu u}$	$^{\mathrm{C}}$
C7_mumu	$rac{4 \check{G}_F}{\sqrt{2}} rac{e}{16\pi^2} m_\mu ar{\mu}_L \sigma^{\mu u} \mu_R F_{\mu u}$	$^{\mathrm{C}}$
C7_tautau	$rac{4 \check{G}_F}{\sqrt{2}} rac{e}{16\pi^2} m_ au ar{ au}_L \sigma^{\mu u} au_R F_{\mu u}$	$^{\mathrm{C}}$
C8_uu	$rac{4G_F}{\sqrt{2}}rac{g_s}{16\pi^2}m_uar{u}_L\sigma^{\mu u}T^Au_RG^A_{\mu u}$	$^{\mathrm{C}}$
C8_cc	$rac{4G_F}{\sqrt{2}}rac{g_s}{16\pi^2}m_car{c}_L\sigma^{\mu u}T^Ac_RG^A_{\mu u}$	$^{\mathrm{C}}$
C8_dd	$rac{4 G_F}{\sqrt{2}} rac{g_s}{16\pi^2} m_d ar{d}_L \sigma^{\mu u} T^A d_R G^A_{\mu u}$	$^{\mathrm{C}}$
C8_ss	$rac{4 G_F}{\sqrt{2}} rac{g_s}{16\pi^2} m_s ar{s}_L \sigma^{\mu u} T^A s_R G^A_{\mu u}$	\mathbf{C}
CTRR_eeuu	$rac{4 G_F}{\sqrt{2}} (ar{e}_L \sigma^{\mu u} e_R) (ar{u}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$
CTRR_mumuuu	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{u}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
CTRR_tautauuu	$rac{4 G_F}{\sqrt{2}} (ar{ au}_L \sigma^{\mu u} au_R) (ar{u}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$
CTRR_eedd	$rac{4G_F}{\sqrt{2}}(ar{e}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
CTRR_eess	$rac{4G_F}{\sqrt{2}}(ar{e}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
CTRR_mumudd	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
CTRR_mumuss	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}s_R)$	\mathbf{C}
CTRR_tautaudd	$rac{4 \dot{G}_F}{\sqrt{2}} (ar{ au}_L \sigma^{\mu u} au_R) (ar{d}_L \sigma_{\mu u} d_R)$	\mathbf{C}
CTRR_tautauss	$rac{4 \dot{G}_F}{\sqrt{2}} (ar{ au}_L \sigma^{\mu u} au_R) (ar{s}_L \sigma_{\mu u} s_R)$	$^{\mathrm{C}}$
CS1RR_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L u_R)(\bar{u}_L u_R)$	$^{\mathrm{C}}$
CS8RR_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$	$^{\mathrm{C}}$
CS1RR_uudd	$rac{4\dot{G}_F}{\sqrt{2}}(ar{u}_L u_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
CS1RR_uuss	$rac{4G_F}{\sqrt{2}}(ar{u}_L u_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
CS8RR_uudd	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A u_R)(\bar{d}_L T^A d_R)$	$^{\mathrm{C}}$
CS8RR_uuss	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A u_R)(\bar{s}_L T^A s_R)$	$^{\mathrm{C}}$
CS1RR_dddd	$\frac{\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}_L T^A u_R)(\bar{s}_L T^A s_R)}{\frac{4G_F}{\sqrt{2}}(\bar{d}_L d_R)(\bar{d}_L d_R)}$	$^{\mathrm{C}}$
CS1RR_ddss	$rac{4G_F}{\sqrt{2}}(ar{d}_L d_R)(ar{s}_L s_R)$	\mathbf{C}
CS1RR_dssd	$rac{4 G_F}{\sqrt{2}} (ar{d}_L s_R) (ar{s}_L d_R)$	\mathbf{C}
CS1RR_ssss	$\frac{4G_F}{\sqrt{s}}(\bar{s}_L s_R)(\bar{s}_L s_R)$	\mathbf{C}
CS8RR_dddd	$\frac{4G_F}{\sqrt{2}}(\bar{d}_L T^A d_R)(\bar{d}_L T^A d_R)$	\mathbf{C}
CS8RR_ddss	$\frac{4G_F}{\sqrt{2}}(d_L T^A d_R)(\bar{s}_L T^A s_R)$	\mathbf{C}
CS8RR_dssd	$\frac{4\dot{G}_F}{\sqrt{2}}(\bar{d}_L T^A s_R)(\bar{s}_L T^A d_R)$	\mathbf{C}
CS8RR_ssss	$\frac{\frac{4\tilde{G}_{F}^{c}}{\sqrt{2}}(\bar{d}_{L}T^{A}s_{R})(\bar{s}_{L}T^{A}d_{R})}{\frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}T^{A}s_{R})(\bar{s}_{L}T^{A}s_{R})}$ $\frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}d_{R})(\bar{d}_{L}u_{R})$	\mathbf{C}
CS1RR_uddu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L d_R)(\bar{d}_L u_R)$	\mathbf{C}
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WC name	Operator	Type
CS1RR_ussu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L s_R)(\bar{s}_L u_R)$	С
CS8RR_uddu	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	$^{\mathrm{C}}$
CS8RR_ussu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}_L T^A s_R)(\bar{s}_L T^A u_R)$	\mathbf{C}
CS1RR_cccc	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L c_R)(\bar{c}_L c_R)$	\mathbf{C}
CS1RR_ccdd	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L c_R)(\bar{d}_L d_R)$	\mathbf{C}
CS1RR_ccss	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L c_R)(\bar{s}_L s_R)$	\mathbf{C}
CS1RR_cddc	$rac{4G_F}{\sqrt{2}}(ar{c}_L d_R)(ar{d}_L c_R)$	$^{\mathrm{C}}$
CS1RR_cssc	$rac{4G_F}{\sqrt{2}}(ar{c}_L s_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
CS1RR_uccu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L c_R)(\bar{c}_L u_R)$	$^{\mathrm{C}}$
CS1RR_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L u_R)(\bar{c}_L c_R)$	$^{\mathrm{C}}$
CS8RR_cccc	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A c_R)(\bar{c}_L T^A c_R)$	$^{\mathrm{C}}$
CS8RR_ccdd	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A c_R)(\bar{d}_L T^A d_R)$	$^{\mathrm{C}}$
CS8RR_ccss	$rac{4G_F}{\sqrt{2}}(ar{c}_L T^A c_R)(ar{s}_L T^A s_R)$	$^{\mathrm{C}}$
CS8RR_cddc	$rac{4G_F}{\sqrt{2}}(ar{c}_L T^A d_R)(ar{d}_L T^A c_R)$	$^{\mathrm{C}}$
CS8RR_cssc	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A s_R)(\bar{s}_L T^A c_R)$	$^{\mathrm{C}}$
CS8RR_uccu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A c_R)(\bar{c}_L T^A u_R)$	$^{\mathrm{C}}$
CS8RR_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A u_R)(\bar{c}_L T^A c_R)$	$^{\mathrm{C}}$
CSRL_eecc	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$
CSRL_eedd	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{d}_R d_L)$	$^{\mathrm{C}}$
CSRL_eess	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{s}_R s_L)$	$^{\mathrm{C}}$
CSRL_eeuu	$\frac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{u}_R u_L)$	$^{\mathrm{C}}$
CSRL_mumucc	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
CSRL_mumudd	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$
CSRL_mumuss	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
CSRL_mumuuu	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{u}_Ru_L)$	$^{\mathrm{C}}$
CSRL_tautaucc	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
CSRL_tautaudd	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$
CSRL_tautauss	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
CSRL_tautauuu	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{u}_Ru_L)$	$^{\mathrm{C}}$
CSRR_eecc	$rac{4ar{G}_F}{\sqrt{2}}(ar{e}_L e_R)(ar{c}_L c_R)$	$^{\mathrm{C}}$
CSRR_eedd	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(d_L d_R)$	$^{\mathrm{C}}$
CSRR_eeee	$\frac{1}{\sqrt{2}}(e_L e_R)(e_L e_R)$	$^{\mathrm{C}}$
CSRR_eemumu	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{\mu}_L \mu_R)$	$^{\mathrm{C}}$
CSRR_eess	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
CSRR_eetautau	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{ au}_L au_R)$	$^{\mathrm{C}}$
CSRR_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{u}_L u_R)$	$^{\mathrm{C}}$
CSRR_emumue	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\mu_R)(\bar{\mu}_Le_R)$	\mathbf{C}

WC name	Operator	Type
CSRR_etautaue	$\frac{4G_F}{\sqrt{2}}(ar{e}_L au_R)(ar{ au}_Le_R)$	$^{\mathrm{C}}$
CSRR_mumucc	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{c}_Lc_R)$	$^{\mathrm{C}}$
CSRR_mumudd	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{d}_Ld_R)$	$^{\mathrm{C}}$
CSRR_mumumumu	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{\mu}_L\mu_R)$	\mathbf{C}
CSRR_mumuss	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{s}_Ls_R)$	\mathbf{C}
CSRR_mumutautau	$rac{4ar{G_F}}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{ au}_L au_R)$	\mathbf{C}
CSRR_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{u}_Lu_R)$	\mathbf{C}
CSRR_mutautaumu	$rac{4\dot{G}_F}{\sqrt{2}}(ar{\mu}_L au_R)(ar{ au}_L\mu_R)$	\mathbf{C}
CSRR_tautaucc	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{c}_Lc_R)$	\mathbf{C}
CSRR_tautaudd	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{d}_Ld_R)$	$^{\mathrm{C}}$
CSRR_tautauss	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{s}_Ls_R)$	$^{\mathrm{C}}$
CSRR_tautautauta	$\lim rac{4G_F}{\sqrt{2}}(ar au_L au_R)(ar au_L au_R)$	$^{\mathrm{C}}$
CSRR_tautauuu	$rac{4G_F}{\sqrt{2}}(ar{ au}_L au_R)(ar{u}_Lu_R)$	$^{\mathrm{C}}$
CTRR_eecc	$rac{4G_F}{\sqrt{2}}(ar{e}_L\sigma^{\mu u}e_R)(ar{c}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
CTRR_mumucc	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{c}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
CTRR_tautaucc	$\frac{4G_F}{\sqrt{2}}(ar{ au}_L\sigma^{\mu u} au_R)(ar{c}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
CV1LL_ccdd	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{d}_L\gamma_\mu d_L)$	\mathbf{R}
CV1LL_ccss	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{s}_L\gamma_\mu s_L)$	R
CV1LL_uudd	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{d}_L\gamma_\mu d_L)$	R
CV1LL_uuss	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{s}_L\gamma_\mu s_L)$	R
CV1LR_cccc	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{c}_R\gamma_\mu c_R)$	R
CV1LR_ccdd	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{d}_R\gamma_\mu d_R)$	R
CV1LR_ccss	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{s}_R\gamma_\mu s_R)$	R
CV1LR_ccuu	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^\mu c_L)(\bar{u}_R\gamma_\mu u_R)$	R
CV1LR_cddc	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu d_L)(ar{d}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
CV1LR_cssc	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu c_R)$	\mathbf{C}
CV1LR_ddcc	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{c}_R\gamma_\mu c_R)$	R
CV1LR_dddd	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{d}_R\gamma_\mu d_R)$	R
CV1LR_ddss	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{s}_R\gamma_\mu s_R)$	R
CV1LR_dduu	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{u}_R\gamma_\mu u_R)$	R
CV1LR_dssd	$\frac{4\widetilde{G}_F}{\sqrt{2}}(ar{d}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu d_R)$	\mathbf{C}
CV1LR_sscc	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{c}_R\gamma_\mu c_R)$	R
CV1LR_ssdd	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{d}_R\gamma_\mu d_R)$	R
CV1LR_ssss	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu s_R)$	R
CV1LR_ssuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu s_L)(\bar{u}_R\gamma_\mu u_R)$	R
CV1LR_uccu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu c_L)(\bar{c}_R\gamma_\mu u_R)$	\mathbf{C}
CV1LR_uddu	$\begin{array}{l} \frac{\sqrt{2}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}s_{L})(\bar{c}_{R}\gamma_{\mu}c_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}s_{L})(\bar{d}_{R}\gamma_{\mu}d_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}s_{L})(\bar{s}_{R}\gamma_{\mu}s_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}s_{L})(\bar{s}_{R}\gamma_{\mu}u_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}s_{L})(\bar{u}_{R}\gamma_{\mu}u_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}c_{L})(\bar{c}_{R}\gamma_{\mu}u_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}d_{L})(\bar{d}_{R}\gamma_{\mu}u_{R}) \end{array}$	\mathbf{C}
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WC name	Operator	Type
CV1LR_ussu	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu u_R)$	\mathbf{C}
CV1LR_uucc	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{c}_R\gamma_\mu c_R)$	R
CV1LR_uudd	$rac{4ar{G_F}}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{d}_R\gamma_\mu d_R)$	R
CV1LR_uuss	$rac{4ar{G}_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{s}_R\gamma_\mu s_R)$	R
CV1LR_uuuu	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{u}_R\gamma_\mu u_R)$	R
CV1RR_ccdd	$rac{4G_F}{\sqrt{2}}(ar{c}_R\gamma^\mu c_R)(ar{d}_R\gamma_\mu d_R)$	R
CV1RR_ccss	$rac{4G_F}{\sqrt{2}}(ar{c}_R\gamma^\mu c_R)(ar{s}_R\gamma_\mu s_R)$	R
CV1RR_uudd	$rac{4ar{G}_F}{\sqrt{2}}(ar{u}_R\gamma^\mu u_R)(ar{d}_R\gamma_\mu d_R)$	R
CV1RR_uuss	$rac{4G_F}{\sqrt{2}}(ar{u}_R\gamma^\mu u_R)(ar{s}_R\gamma_\mu s_R)$	R
CV8LL_ccdd	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu T^A c_L)(ar{d}_L\gamma_\mu T^A d_L)$	R
CV8LL_ccss	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu T^A c_L)(ar{s}_L\gamma_\mu T^A s_L)$	R
CV8LL_uudd	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{d}_L\gamma_{\mu}T^Ad_L)$	R
CV8LL_uuss	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{s}_L\gamma_{\mu}T^As_L)$	R
CV8LR_cccc	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu T^Ac_L)(ar{c}_R\gamma_\mu T^Ac_R)$	R
CV8LR_ccdd	$rac{4ar{G_F}}{\sqrt{2}}(ar{c}_L\gamma^\mu T^Ac_L)(ar{d}_R\gamma_\mu T^Ad_R)$	R
CV8LR_ccss	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^\mu T^A c_L)(\bar{s}_R\gamma_\mu T^A s_R)$	R
CV8LR_ccuu	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^{\mu}T^Ac_L)(\bar{u}_R\gamma_{\mu}T^Au_R)$	R
CV8LR_cddc	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu T^A d_L)(ar{d}_R\gamma_\mu T^A c_R)$	\mathbf{C}
CV8LR_cssc	$rac{4\widetilde{G_F}}{\sqrt{2}}(ar{c}_L\gamma^\mu T^A s_L)(ar{s}_R\gamma_\mu T^A c_R)$	\mathbf{C}
CV8LR_ddcc	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu T^A d_L)(ar{c}_R\gamma_\mu T^A c_R)$	R
CV8LR_dddd	$\frac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu T^A d_L)(ar{d}_R\gamma_\mu T^A d_R)$	R
CV8LR_ddss	$\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^\mu T^A d_L)(\bar{s}_R\gamma_\mu T^A s_R)$	R
CV8LR_dduu	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu T^A d_L)(ar{u}_R\gamma_\mu T^A u_R)$	R
CV8LR_dssd	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}_L\gamma^\mu T^A s_L)(\bar{s}_R\gamma_\mu T^A d_R)$	\mathbf{C}
CV8LR_sscc	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu T^A s_L)(\bar{c}_R\gamma_\mu T^A c_R)$	R
CV8LR_ssdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu T^A s_L)(\bar{d}_R\gamma_\mu T^A d_R)$	R
CV8LR_ssss	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^{\mu}T^As_L)(\bar{s}_R\gamma_{\mu}T^As_R)$	R
CV8LR_ssuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^{\mu}T^As_L)(\bar{u}_R\gamma_{\mu}T^Au_R)$	R
CV8LR_uccu	$\frac{4\check{G}_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}T^{A}c_{L})(\bar{c}_{R}\gamma_{\mu}T^{A}u_{R})$	\mathbf{C}
CV8LR_uddu	$rac{4ar{G_F}}{\sqrt{2}}(ar{u}_L\gamma^\mu T^A d_L)(ar{d}_R\gamma_\mu T^A u_R)$	\mathbf{C}
CV8LR_ussu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu T^A s_L)(\bar{s}_R\gamma_\mu T^A u_R)$	\mathbf{C}
CV8LR_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu T^A u_L)(\bar{c}_R\gamma_\mu T^A c_R)$	R
CV8LR_uudd	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{d}_R\gamma_{\mu}T^Ad_R)$	R
CV8LR_uuss	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{s}_R\gamma_{\mu}T^As_R)$	R
CV8LR_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{u}_R\gamma_{\mu}T^Au_R)$	R
CV8RR_ccdd	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{c}_R\gamma^\mu T^Ac_R)(\bar{d}_R\gamma_\mu T^Ad_R)$	R
CV8RR_ccss	$\begin{array}{l} \frac{\sqrt{2}}{\sqrt{2}}(u_L\gamma^{\mu}T\ u_L)(u_R\gamma_{\mu}T\ u_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^As_L)(\bar{s}_R\gamma_{\mu}T^Au_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{c}_R\gamma_{\mu}T^Ac_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{d}_R\gamma_{\mu}T^Ad_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{s}_R\gamma_{\mu}T^As_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{u}_R\gamma_{\mu}T^Au_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{c}_R\gamma^{\mu}T^Ac_R)(\bar{d}_R\gamma_{\mu}T^Ad_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{c}_R\gamma^{\mu}T^Ac_R)(\bar{s}_R\gamma_{\mu}T^As_R) \end{array}$	R
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WC name	Operator	Type
CV8RR_uudd	$\frac{4G_F}{\sqrt{2}}(\bar{u}_R\gamma^{\mu}T^Au_R)(\bar{d}_R\gamma_{\mu}T^Ad_R)$	R
CV8RR_uuss	$\frac{4\overset{C^{F}}{\sqrt{2}}}{\sqrt{2}}(\bar{u}_{R}\gamma^{\mu}T^{A}u_{R})(\bar{s}_{R}\gamma_{\mu}T^{A}s_{R})$	${ m R}$
CVLL_cccc	$rac{4ar{Q}_F^{\Gamma}}{\sqrt{2}}(ar{c}_L\gamma^{\mu}c_L)(ar{c}_L\gamma_{\mu}c_L)$	R
CVLL_dddd	$rac{4ar{G_F}}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{d}_L\gamma_\mu d_L)$	R
CVLL_ddss	$rac{4ar{G_F}}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{s}_L\gamma_\mu s_L)$	R
CVLL_dssd	$rac{4ar{G_F}}{\sqrt{2}}(ar{d}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu d_L)$	R
CVLL_eecc	$rac{4ar{G_F}}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{c}_L\gamma_\mu c_L)$	R
CVLL_eedd	$rac{4ar{G_F}}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{d}_L\gamma_\mu d_L)$	R
CVLL_eeee	$rac{4ar{G_F}}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{e}_L\gamma_\mu e_L)$	R
CVLL_eemumu	$rac{4ar{G_F}}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{\mu}_L\gamma_\mu\mu_L)$	R
CVLL_eess	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{s}_L\gamma_\mu s_L)$	R
CVLL_eetautau	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{ au}_L\gamma_\mu au_L)$	R
CVLL_eeuu	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{u}_L\gamma_\mu u_L)$	R
CVLL_mumucc	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{c}_L\gamma_\mu c_L)$	R
CVLL_mumudd	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{d}_L\gamma_\mu d_L)$	\mathbf{R}
CVLL_mumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{\mu}_L\gamma_\mu\mu_L)$	\mathbf{R}
CVLL_mumuss	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{s}_L\gamma_\mu s_L)$	R
CVLL_mumutautau	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{ au}_L\gamma_\mu au_L)$	R
CVLL_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{u}_L\gamma_\mu u_L)$	R
CVLL_ssss	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu s_L)$	R
CVLL_tautaucc	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{c}_L\gamma_\mu c_L)$	R
CVLL_tautaudd	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{d}_L\gamma_\mu d_L)$	R
CVLL_tautauss	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{s}_L\gamma_\mu s_L)$	R
CVLL_tautautautau	1 $rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{ au}_L\gamma_\mu au_L)$	R
CVLL_tautauuu	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{u}_L\gamma_\mu u_L)$	R
CVLL_uccu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu c_L)(\bar{c}_L\gamma_\mu u_L)$	R
CVLL_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{c}_L\gamma_\mu c_L)$	R
CVLL_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{u}_L\gamma_\mu u_L)$	R
CVLR_ccee	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^\mu c_L)(\bar{e}_R\gamma_\mu e_R)$	R
CVLR_ccmumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^\mu c_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	R
CVLR_cctautau	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{ au}_R\gamma_\mu au_R)$	R
CVLR_ddee	$\frac{\frac{1}{\sqrt{2}}(c_L\gamma^{\mu}c_L)(\mu_R\gamma_{\mu}\mu_R)}{\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^{\mu}c_L)(\bar{\tau}_R\gamma_{\mu}\tau_R)}$ $\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^{\mu}d_L)(\bar{e}_R\gamma_{\mu}e_R)$	R
CVLR_ddmumu	$\frac{4G_F}{\sqrt{2}}(d_L\gamma^\mu d_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	R
CVLR_ddtautau	$rac{4ar{G_F}}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{ au}_R\gamma_\mu au_R)$	R
CVLR_eecc	$\begin{array}{l} \frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^\mu d_L)(\bar{\tau}_R\gamma_\mu\tau_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu e_L)(\bar{c}_R\gamma_\mu c_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu e_L)(\bar{d}_R\gamma_\mu d_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu e_L)(\bar{e}_R\gamma_\mu e_R) \end{array}$	R
CVLR_eedd	$\frac{4 \bar{G_F}}{\sqrt{2}} (\bar{e}_L \gamma^\mu e_L) (\bar{d}_R \gamma_\mu d_R)$	${ m R}$
CVLR_eeee	$\frac{4G_{F}}{\sqrt{2}}(\bar{e}_{L}\gamma^{\mu}e_{L})(\bar{e}_{R}\gamma_{\mu}e_{R})$	\mathbf{R}

WC name	Operator	Type
CVLR_eemumu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^{\mu}e_L)(\bar{\mu}_R\gamma_{\mu}\mu_R)$	R
CVLR_eess	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{e}_L\gamma^{\mu}e_L)(\bar{s}_R\gamma_{\mu}s_R)$	${ m R}$
CVLR_eetautau	$\frac{4\ddot{G}_F^2}{\sqrt{2}}(\bar{e}_L\gamma^{\mu}e_L)(\bar{\tau}_R\gamma_{\mu}\tau_R)$	${ m R}$
CVLR_eeuu	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{e}_L\gamma^{\mu}e_L)(\bar{u}_R\gamma_{\mu}u_R)$	${ m R}$
CVLR_emumue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu\mu_L)(\bar{\mu}_R\gamma_\mu e_R)$	\mathbf{C}
CVLR_etautaue	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{e}_L \gamma^\mu \tau_L) (\bar{\tau}_R \gamma_\mu e_R)$	\mathbf{C}
CVLR_mumucc	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{c}_R\gamma_\mu c_R)$	R
CVLR_mumudd	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{d}_R\gamma_\mu d_R)$	R
CVLR_mumuee	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{e}_R\gamma_\mu e_R)$	R
CVLR_mumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	\mathbf{R}
CVLR_mumuss	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{s}_R\gamma_\mu s_R)$	\mathbf{R}
${\tt CVLR_mumutautau}$	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{\tau}_R\gamma_\mu\tau_R)$	R
CVLR_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{u}_R\gamma_\mu u_R)$	R
CVLR_mutautaumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\tau_L)(\bar{\tau}_R\gamma_\mu\mu_R)$	\mathbf{C}
CVLR_ssee	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu s_L)(\bar{e}_R\gamma_\mu e_R)$	\mathbf{R}
CVLR_ssmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu s_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	\mathbf{R}
CVLR_sstautau	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{ au}_R\gamma_\mu au_R)$	\mathbf{R}
CVLR_tautaucc	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{c}_R\gamma_\mu c_R)$	R
CVLR_tautaudd	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{d}_R\gamma_\mu d_R)$	R
CVLR_tautauee	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{e}_R\gamma_\mu e_R)$	\mathbf{R}
CVLR_tautaumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L\gamma^\mu\tau_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	\mathbf{R}
CVLR_tautauss	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{s}_R\gamma_\mu s_R)$	\mathbf{R}
CVLR_tautautautau	$4 rac{4G_F}{\sqrt{2}} (ar{ au}_L \gamma^\mu au_L) (ar{ au}_R \gamma_\mu au_R)$	\mathbf{R}
CVLR_tautauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L\gamma^\mu\tau_L)(\bar{u}_R\gamma_\mu u_R)$	\mathbf{R}
CVLR_uuee	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{e}_R\gamma_\mu e_R)$	\mathbf{R}
CVLR_uumumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	\mathbf{R}
CVLR_uutautau	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{\tau}_R\gamma_\mu \tau_R)$	\mathbf{R}
CVRR_cccc	$rac{4G_F}{\sqrt{2}}(ar{c}_R\gamma^\mu c_R)(ar{c}_R\gamma_\mu c_R)$	\mathbf{R}
CVRR_dddd	$\frac{4G_F}{\sqrt{2}}(\bar{d}_R\gamma^\mu d_R)(\bar{d}_R\gamma_\mu d_R)$	R
CVRR_ddss	$rac{4G_F}{\sqrt{2}}(ar{d}_R\gamma^\mu d_R)(ar{s}_R\gamma_\mu s_R)$	\mathbf{R}
CVRR_dssd	$\frac{4G_F}{\sqrt{2}}(\bar{d}_R\gamma^{\mu}s_R)(\bar{s}_R\gamma_{\mu}d_R)$ $\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{c}_R\gamma_{\mu}c_R)$	\mathbf{R}
CVRR_eecc	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{c}_R\gamma_{\mu}c_R)$	\mathbf{R}
CVRR_eedd	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(d_R\gamma_{\mu}d_R)$	\mathbf{R}
CVRR_eeee	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^\mu e_R)(\bar{e}_R\gamma_\mu e_R)$	R
CVRR_eemumu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{\mu}_R\gamma_{\mu}\mu_R)$	\mathbf{R}
CVRR_eess	$\frac{4G_F^c}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{e}_R\gamma_{\mu}e_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{\mu}_R\gamma_{\mu}\mu_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{s}_R\gamma_{\mu}s_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{\tau}_R\gamma_{\mu}\tau_R)$	\mathbf{R}
CVRR_eetautau	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^\mu e_R)(\bar{\tau}_R\gamma_\mu \tau_R)$	\mathbf{R}

WC name	Operator	Type
CVRR_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{u}_R\gamma_{\mu}u_R)$	R
CVRR_mumucc	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_R\gamma^\mu\mu_R)(\bar{c}_R\gamma_\mu c_R)$	${ m R}$
CVRR_mumudd	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{\mu}_R\gamma^\mu\mu_R)(ar{d}_R\gamma_\mu d_R)$	${ m R}$
CVRR_mumumumu	$\frac{4\overset{\circ}{\sqrt{2}}}{\sqrt{2}}(\bar{\mu}_R\gamma^\mu\mu_R)(\bar{\mu}_R\gamma_\mu\mu_R)$	${ m R}$
CVRR_mumuss	$\frac{4\mathring{G}_{F}}{\sqrt{2}}(\bar{\mu}_{R}\gamma^{\mu}\mu_{R})(\bar{s}_{R}\gamma_{\mu}s_{R})$	${ m R}$
CVRR_mumutautau	$\frac{4\overset{\circ}{\sqrt{2}}}{\sqrt{2}}(\bar{\mu}_R\gamma^\mu\mu_R)(\bar{\tau}_R\gamma_\mu au_R)$	${ m R}$
CVRR_mumuuu	$rac{4\overset{\circ}{\sqrt{2}}}{\sqrt{2}}(ar{\mu}_R\gamma^\mu\mu_R)(ar{u}_R\gamma_\mu u_R)$	${ m R}$
CVRR_ssss	$rac{4\overset{\circ}{\sqrt{2}}}{\sqrt{2}}(ar{s}_R\gamma^{\mu}s_R)(ar{s}_R\gamma_{\mu}s_R)$	${ m R}$
CVRR_tautaucc	$rac{4\overset{\circ}{\sqrt{2}}}{\sqrt{2}}(ar{ au}_R\gamma^\mu au_R)(ar{c}_R\gamma_\mu c_R)$	${ m R}$
CVRR_tautaudd	$rac{4\widetilde{G}_F^2}{\sqrt{2}}(ar{ au}_R\gamma^\mu au_R)(ar{d}_R\gamma_\mu d_R)$	${ m R}$
CVRR_tautauss	$rac{4\overset{\circ}{\sqrt{2}}}{\sqrt{2}}(ar{ au}_R\gamma^\mu au_R)(ar{s}_R\gamma_\mu s_R)$	${ m R}$
CVRR_tautautauta	u $rac{4\overset{\sim}{G_F}}{\sqrt{2}}(ar{ au}_R\gamma^\mu au_R)(ar{ au}_R\gamma_\mu au_R)$	${ m R}$
CVRR_tautauuu	$rac{4\overset{\circ}{\sqrt{2}}}{\sqrt{2}}(ar{ au}_R\gamma^\mu au_R)(ar{u}_R\gamma_\mu u_R)$	${ m R}$
CVRR_uccu	$\frac{4\overset{\sim}{Q_E}}{\sqrt{2}}(\bar{u}_R\gamma^\mu c_R)(\bar{c}_R\gamma_\mu u_R)$	${ m R}$
CVRR_uucc	$rac{4\overset{\sim}{Q_E}}{\sqrt{2}}(ar{u}_R\gamma^\mu u_R)(ar{c}_R\gamma_\mu c_R)$	${ m R}$
CVRR_uuuu	$rac{4Q_F^2}{\sqrt{2}}(ar{u}_R\gamma^\mu u_R)(ar{u}_R\gamma_\mu u_R)$	R

${\tt mue}$

WC name	Operator	Type
Cgamma_mue	$\bar{e}_L \sigma^{\mu\nu} \mu_R F_{\mu\nu}$	C
Cgamma_emu	$ar{\mu}_L \sigma^{\mu u} e_R F_{\mu u}$	\mathbf{C}
CVLL_eemue	$(ar{e}_L\gamma^\mu e_L)(\dot{ar{e}}_L\gamma_\mu\mu_L)$	\mathbf{C}
CVLL_muemumu	$(ar{e}_L \gamma^\mu \mu_L) (ar{\mu}_L \gamma_\mu \mu_L)$	\mathbf{C}
CVLL_muetautau	$(ar{e}_L \gamma^\mu \mu_L) (ar{ au}_L \gamma_\mu au_L)$	\mathbf{C}
CVLL_mueuu	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_L \gamma_\mu u_L)$	\mathbf{C}
CVLL_muecc	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{c}_L \gamma_\mu c_L)$	\mathbf{C}
CVLL_muedd	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu d_L)$	\mathbf{C}
CVLL_muess	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_L \gamma_\mu s_L)$	\mathbf{C}
CVRR_eemue	$(\bar{e}_R \gamma^\mu e_R)(\bar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVRR_muemumu	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVRR_muetautau	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\tau}_R \gamma_\mu \tau_R)$	\mathbf{C}
CVRR_mueuu	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{u}_R \gamma_\mu u_R)$	\mathbf{C}
CVRR_muecc	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{c}_R \gamma_\mu c_R)$	\mathbf{C}
CVRR_muedd	$(\bar{e}_R \gamma^\mu \mu_R) (\bar{d}_R \gamma_\mu d_R)$	\mathbf{C}
CVRR_muess	$(ar{e}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu s_R)$	\mathbf{C}
CVLR_eemue	$(ar{e}_L \gamma^\mu e_L)(ar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_mueee	$(ar{e}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu e_R)$	\mathbf{C}
CVLR_muemumu	$(ar{e}_L \gamma^\mu \mu_L) (ar{\mu}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_muetautau	$(ar{e}_L \gamma^\mu \mu_L) (ar{ au}_R \gamma_\mu au_R)$	\mathbf{C}

WC name	Operator	Type
CVLR_tauemutau	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{\tau}_R \gamma_\mu \mu_R)$	С
CVLR_mumumue	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_taumuetau	$(ar{\mu}_L \gamma^\mu au_L) (ar{ au}_R \gamma_\mu e_R)$	\mathbf{C}
CVLR_tautaumue	$(\bar{ au}_L \gamma^\mu au_L)(\bar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_mueuu	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
CVLR_muecc	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
CVLR_muedd	$(\bar{e}_L \gamma^\mu \mu_L) (d_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
CVLR_muess	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
CVLR_uumue	$(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_ccmue	$(\bar{c}_L\gamma^\mu c_L)(\bar{e}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
CVLR_ddmue	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_ssmue	$(\bar{s}_L \gamma^\mu s_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CSRL_mueuu	$(ar{e}_L\mu_R)(ar{u}_Ru_L)$	$^{\mathrm{C}}$
CSRL_muecc	$(ar{e}_L\mu_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
CSRL_emuuu	$(ar{\mu}_L e_R)(ar{u}_R u_L)$	\mathbf{C}
CSRL_emucc	$(ar{\mu}_L e_R)(ar{c}_R c_L)$	\mathbf{C}
CSRL_muedd	$(ar{e}_L\mu_R)(d_Rd_L)$	\mathbf{C}
CSRL_muess	$(ar{e}_L\mu_R)(ar{s}_{_{\! -}}\!s_L)$	\mathbf{C}
CSRL_emudd	$(ar{\mu}_L e_R)(ar{d}_R d_L)$	\mathbf{C}
CSRL_emuss	$(ar{\mu}_L e_R)(ar{s}_R s_L)$	\mathbf{C}
CSRR_eemue	$(ar{e}_L e_R)(ar{e}_L \mu_R)$	С
CSRR_eeemu	$(ar{e}_L e_R)(ar{\mu}_L e_R)$	С
CSRR_muemumu	$(ar{e}_L\mu_R)(ar{\mu}_L\mu_R)$	$^{\mathrm{C}}$
CSRR_muetautau	$(ar{e}_L\mu_R)(ar{ au}_L au_R)$	$^{\mathrm{C}}$
CSRR_tauemutau	$(ar{e}_L au_R)(ar{ au}_L\mu_R)$	$^{\mathrm{C}}$
CSRR_emumumu	$(ar{\mu}_L e_R)(ar{\mu}_L \mu_R)$	$^{\mathrm{C}}$
CSRR_emutautau	$(ar{\mu}_L e_R)(ar{ au}_L au_R)$	$^{\mathrm{C}}$
CSRR_taumuetau	$(ar{\mu}_L au_R)(ar{ au}_Le_R)$	С
CSRR_mueuu	$(ar{e}_L\mu_R)(ar{u}_Lu_R)$	C
CSRR_muecc	$(ar{e}_L\mu_R)(ar{c}_Lc_R)$	C
CSRR_emuuu	$(\bar{\mu}_L e_R)(\bar{u}_L u_R)$	C
CSRR_emucc	$(\bar{\mu}_L e_R)(\bar{c}_L c_R)$	C
CTRR_mueuu	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{u}_L\sigma_{\mu u}u_R)$	C
CTRR_muecc	$(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{c}_L \sigma_{\mu\nu} c_R)$	C
CTRR_emuuu	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	C
CTRR_emucc	$(ar{\mu}_L\sigma^{\mu u}e_R)(ar{c}_L\sigma_{\mu u}c_R)$	C
CSRR_muedd	$(ar{e}_L \mu_R)(d_L d_R)$	C
CSRR_muess	$(ar{e}_L\mu_R)(ar{s}_Ls_R)$	C
CSRR_emudd	$(ar{\mu}_L e_R)(d_L d_R)$	C
CSRR_emuss	$(ar{\mu}_L e_R)(ar{s}_L s_{ar{R}})$	$^{\mathrm{C}}$
CTRR_muedd	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
CTRR_muess	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
CTRR_emudd	$(ar{\mu}_L \sigma^{\mu u} e_R) (ar{d}_L \sigma_{\mu u} d_R)$	С

WC name	Operator	Type
CTRR_emuss	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$	С

${\tt mutau}$

WC name	Operator	Type
Cgamma_taumu	$ar{\mu}_L \sigma^{\mu u} au_R F_{\mu u}$	С
Cgamma_mutau	$ar{ au}_L \sigma^{\mu u} \mu_R \dot{F}_{\mu u}$	\mathbf{C}
CVLL_eetaumu	$(ar{e}_L\gamma^\mu e_L)(\dot{ar{\mu}}_L\gamma_\mu au_L)$	\mathbf{C}
CVLL_mumutaumu	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_L \dot{\gamma}_\mu \tau_L)$	C
CVLL_taumutautau	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{ au}_L \gamma_\mu au_L)$	C
CVLL_taumuuu	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{u}_L \gamma_\mu u_L)$	\mathbf{C}
CVLL_taumucc	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{c}_L \gamma_\mu c_L)$	C
CVLL_taumudd	$(ar{\mu}_L \gamma^\mu au_L) (ar{d}_L \gamma_\mu d_L)$	C
CVLL_taumuss	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{s}_L \gamma_\mu s_L)$	C
CVRR_eetaumu	$(ar{e}_R \gamma^\mu e_R) (ar{\mu}_R \gamma_\mu au_R)$	C
CVRR_mumutaumu	$(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \tau_R)$	C
CVRR_taumutautau	$(\bar{\mu}_R \gamma^\mu au_R)(\bar{ au}_R \gamma_\mu au_R)$	C
CVRR_taumuuu	$(\bar{\mu}_R \gamma^\mu \tau_R)(\bar{u}_R \gamma_\mu u_R)$	C
CVRR_taumucc	$(\bar{\mu}_R \gamma^\mu au_R)(\bar{c}_R \gamma_\mu c_R)$	C
CVRR_taumudd	$(\bar{\mu}_R \gamma^\mu au_R) (\bar{d}_R \gamma_\mu d_R)$	\mathbf{C}
CVRR_taumuss	$(\bar{\mu}_R \gamma^\mu \tau_R)(\bar{s}_R \gamma_\mu s_R)$	С
CVLR_eetaumu	$(ar{e}_L \gamma^\mu e_L) (ar{\mu}_R \gamma_\mu au_R)$	\mathbf{C}
CVLR_mueetau	$(ar{e}_L \gamma^\mu \mu_L) (ar{ au}_R \gamma_\mu e_R)$	C
CVLR_taueemu	$(ar{e}_L \gamma^\mu au_L) (ar{\mu}_R \gamma_\mu e_R)$	C
CVLR_mumutaumu	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	C
CVLR_taumuee	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{e}_R \gamma_\mu e_R)$	C
CVLR_taumumumu	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	C
CVLR_taumutautau	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{ au}_R \gamma_\mu au_R)$	C
CVLR_tautautaumu	· · · · · · · · · · · · · · · · · · ·	\mathbf{C}
CVLR_taumuuu	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{u}_R \gamma_\mu u_R)$	C
CVLR_taumucc	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{c}_R \gamma_\mu c_R)$	C
CVLR_taumudd	$(ar{\mu}_L \gamma^\mu au_L)(d_R \gamma_\mu d_R)$	С
CVLR_taumuss	$(\bar{\mu}_L \gamma^\mu au_L)(\bar{s}_R \gamma_\mu s_R)$	C
CVLR_uutaumu	$(\bar{u}_L \gamma^\mu u_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	C
CVLR_cctaumu	$(\bar{c}_L \gamma^\mu c_L)(\bar{\mu}_R \gamma_\mu au_R)$	C
CVLR_ddtaumu	$(ar{d}_L \gamma^\mu d_L) (ar{\mu}_R \gamma_\mu au_R)$	C
CVLR_sstaumu	$(ar{s}_L \gamma^\mu s_L) (ar{\mu}_R \gamma_\mu au_R)$	С
CSRL_taumuuu	$(ar{\mu}_L au_R)(ar{u}_Ru_L)$	C
CSRL_taumucc	$(ar{\mu}_L au_R)(ar{c}_Rc_L)$	С
CSRL_mutauuu	$(ar{ au}_L \mu_R)(ar{u}_R u_L)$	C
CSRL_mutaucc	$(ar{ au}_L \mu_R)(ar{c}_R c_L)$	\mathbf{C}
CSRL_taumudd	$(ar{\mu}_L au_R)(ar{d}_Rd_L)$	C
CSRL_taumuss	$(ar{\mu}_L au_R)(ar{s}_Rs_L)$	C

WC name	Operator	Type
CSRL_mutaudd	$(ar{ au}_L\mu_R)(ar{d}_Rd_L)$	С
CSRL_mutauss	$(ar{ au}_L\mu_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
CSRR_eetaumu	$(ar{e}_L e_R)(ar{\mu}_L au_R)$	$^{\mathrm{C}}$
CSRR_eemutau	$(ar{e}_L e_R)(ar{ au}_L \mu_R)$	$^{\mathrm{C}}$
CSRR_mueetau	$(ar{e}_L\mu_R)(ar{ au}_Le_R)$	\mathbf{C}
CSRR_taueemu	$(ar{e}_L au_R)(ar{\mu}_Le_R)$	$^{\mathrm{C}}$
CSRR_mumutaumu	$(ar{\mu}_L\mu_R)(ar{\mu}_L au_R)$	$^{\mathrm{C}}$
CSRR_mumumutau	$(ar{\mu}_L\mu_R)(ar{ au}_L\mu_R)$	$^{\mathrm{C}}$
CSRR_taumutautau	$(ar{\mu}_L au_R)(ar{ au}_L au_R)$	\mathbf{C}
CSRR_mutautautau	$(ar{ au}_L\mu_R)(ar{ au}_L au_R)$	\mathbf{C}
CSRR_taumuuu	$(ar{\mu}_L au_R)(ar{u}_Lu_R)$	\mathbf{C}
CSRR_taumucc	$(ar{\mu}_L au_R)(ar{c}_Lc_R)$	$^{\mathrm{C}}$
CSRR_mutauuu	$(ar{ au}_L\mu_R)(ar{u}_Lu_R)$	$^{\mathrm{C}}$
CSRR_mutaucc	$(ar{ au}_L\mu_R)(ar{c}_Lc_R)$	\mathbf{C}
CTRR_taumuuu	$(\bar{\mu}_L \sigma^{\mu u} au_R) (\bar{u}_L \sigma_{\mu u} u_R)$	\mathbf{C}
CTRR_taumucc	$(\bar{\mu}_L \sigma^{\mu u} au_R) (\bar{c}_L \sigma_{\mu u} c_R)$	\mathbf{C}
CTRR_mutauuu	$(\bar{ au}_L \sigma^{\mu u} \mu_R)(\bar{u}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$
CTRR_mutaucc	$(ar{ au}_L \sigma^{\mu u} \mu_R) (ar{c}_L \sigma_{\mu u} c_R)$	\mathbf{C}
CSRR_taumudd	$(ar{\mu}_L au_R)(ar{d}_Ld_R)$	$^{\mathrm{C}}$
CSRR_taumuss	$(ar{\mu}_L au_R)(ar{s}_Ls_R)$	$^{\mathrm{C}}$
CSRR_mutaudd	$(ar{ au}_L\mu_R)(ar{d}_Ld_R)$	\mathbf{C}
CSRR_mutauss	$(ar{ au}_L\mu_R)(ar{s}_Ls_R)$	$^{\mathrm{C}}$
CTRR_taumudd	$(ar{\mu}_L \sigma^{\mu u} au_R) (ar{d}_L \sigma_{\mu u} d_R)$	$^{\mathrm{C}}$
CTRR_taumuss	$(\bar{\mu}_L \sigma^{\mu u} au_R) (\bar{s}_L \sigma_{\mu u} s_R)$	$^{\mathrm{C}}$
CTRR_mutaudd	$(ar{ au}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
CTRR_mutauss	$(ar au_L\sigma^{\mu u}\mu_R)(ar s_L\sigma_{\mu u}s_R)$	С

taue

WC name	Operator	Type
Cgamma_taue	$\bar{e}_L \sigma^{\mu u} au_R F_{\mu u}$	C
Cgamma_etau	$ar{ au}_L \sigma^{\mu u} e_R \dot{F}_{\mu u}$	\mathbf{C}
CVLL_eetaue	$(ar{e}_L\gamma^\mu e_L)(\dot{ar{e}}_L\gamma_\mu au_L)$	\mathbf{C}
CVLL_muetaumu	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_L \gamma_\mu \tau_L)$	\mathbf{C}
CVLL_tauetautau	$(\bar{e}_L \gamma^\mu au_L)(\bar{ au}_L \gamma_\mu au_L)$	$^{\mathrm{C}}$
CVLL_taueuu	$(\bar{e}_L \gamma^\mu au_L)(\bar{u}_L \gamma_\mu u_L)$	$^{\mathrm{C}}$
CVLL_tauecc	$(ar{e}_L \gamma^\mu au_L)(ar{c}_L \gamma_\mu c_L)$	C
CVLL_tauedd	$(ar{e}_L \gamma^\mu au_L) (ar{d}_L \gamma_\mu d_L)$	\mathbf{C}
CVLL_tauess	$(ar{e}_L \gamma^\mu au_L) (ar{s}_L \gamma_\mu s_L)$	\mathbf{C}
CVRR_eetaue	$(\bar{e}_R \gamma^\mu e_R)(\bar{e}_R \gamma_\mu \tau_R)$	\mathbf{C}
CVRR_muetaumu	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \tau_R)$	$^{\mathrm{C}}$
CVRR_tauetautau	$(\bar{e}_R\gamma^\mu au_R)(ar{ au}_R\gamma_\mu au_R)$	\mathbf{C}
CVRR_taueuu	$(\bar{e}_R \gamma^\mu \tau_R)(\bar{u}_R \gamma_\mu u_R)$	\mathbf{C}

WC name	Operator	Type
CVRR_tauecc	$(\bar{e}_R \gamma^\mu \tau_R)(\bar{c}_R \gamma_\mu c_R)$	C
CVRR_tauedd	$(ar{e}_R \gamma^\mu au_R) (ar{d}_R \gamma_\mu d_R)$	\mathbf{C}
CVRR_tauess	$(ar{e}_R \gamma^\mu au_R) (ar{s}_R \gamma_\mu s_R)$	\mathbf{C}
CVLR_eetaue	$(ar{e}_L \gamma^\mu e_L) (ar{e}_R \gamma_\mu au_R)$	\mathbf{C}
CVLR_muetaumu	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	\mathbf{C}
CVLR_taueee	$(ar{e}_L\gamma^\mu au_L)(ar{e}_R\gamma_\mu e_R)$	\mathbf{C}
CVLR_tauemumu	$(\bar{e}_L \gamma^\mu au_L) (\bar{\mu}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_tauetautau	$(ar{e}_L \gamma^\mu au_L) (ar{ au}_R \gamma_\mu au_R)$	\mathbf{C}
CVLR_mumutaue	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu au_R)$	\mathbf{C}
CVLR_taumumue	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_tautautaue	$(ar au_L\gamma^\mu au_L)(ar e_R\gamma_\mu au_R)$	\mathbf{C}
CVLR_taueuu	$(\bar{e}_L \gamma^\mu au_L)(\bar{u}_R \gamma_\mu u_R)$	\mathbf{C}
CVLR_tauecc	$(ar{e}_L \gamma^\mu au_L) (ar{c}_R \gamma_\mu c_R)$	\mathbf{C}
CVLR_tauedd	$(ar{e}_L \gamma^\mu au_L) (ar{d}_R \gamma_\mu d_R)$	\mathbf{C}
CVLR_tauess	$(ar{e}_L \gamma^\mu au_L) (ar{s}_R \gamma_\mu s_R)$	\mathbf{C}
CVLR_uutaue	$(ar{u}_L \gamma^\mu u_L) (ar{e}_R \gamma_\mu au_R)$	\mathbf{C}
CVLR_cctaue	$(ar{c}_L \gamma^\mu c_L) (ar{e}_R \gamma_\mu au_R)$	\mathbf{C}
CVLR_ddtaue	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu au_R)$	\mathbf{C}
CVLR_sstaue	$(ar s_L \gamma^\mu s_L) (ar e_R \gamma_\mu au_R)$	\mathbf{C}
CSRL_taueuu	$(ar{e}_L au_R)(ar{u}_Ru_L)$	\mathbf{C}
CSRL_tauecc	$(ar{e}_L au_R)(ar{c}_Rc_L)$	\mathbf{C}
CSRL_etauuu	$(ar{ au}_L e_R)(ar{u}_R u_L)$	\mathbf{C}
CSRL_etaucc	$(ar{ au}_L e_R)(ar{c}_R c_L)$	\mathbf{C}
CSRL_tauedd	$(ar{e}_L au_R)(ar{d}_Rd_L)$	\mathbf{C}
CSRL_tauess	$(ar{e}_L au_R)(ar{s}_Rs_L)$	\mathbf{C}
CSRL_etaudd	$(ar{ au}_L e_R)(ar{d}_R d_L)$	\mathbf{C}
CSRL_etauss	$(ar{ au}_L e_R)(ar{s}_R s_L)$	\mathbf{C}
CSRR_eetaue	$(\bar{e}_L e_R)(\bar{e}_L au_R)$	\mathbf{C}
CSRR_eeetau	$(ar{e}_L e_R)(ar{ au}_L e_R)$	\mathbf{C}
CSRR_muetaumu	$(ar{e}_L\mu_R)(ar{\mu}_L au_R)$	\mathbf{C}
CSRR_tauemumu	$(ar{e}_L au_R)(ar{\mu}_L\mu_R)$	\mathbf{C}
CSRR_tauetautau	$(ar{e}_L au_R)(ar{ au}_L au_R)$	\mathbf{C}
CSRR_emumutau	$(ar{\mu}_L e_R)(ar{ au}_L \mu_R)$	\mathbf{C}
CSRR_mumuetau	$(ar{\mu}_L\mu_R)(ar{ au}_Le_R)$	\mathbf{C}
CSRR_etautautau	$(ar{ au}_L e_R)(ar{ au}_L au_R)$	\mathbf{C}
CSRR_taueuu	$(ar{e}_L au_R)(ar{u}_Lu_R)$	\mathbf{C}
CSRR_tauecc	$(ar{e}_L au_R)(ar{c}_Lc_R)$	\mathbf{C}
CSRR_etauuu	$(\bar{ au}_L e_R)(\bar{u}_L u_R)$	\mathbf{C}
CSRR_etaucc	$(ar{ au}_L e_R)(ar{c}_L c_R)$	\mathbf{C}
CTRR_taueuu	$(\bar{e}_L \sigma^{\mu u} au_R) (\bar{u}_L \sigma_{\mu u} u_R)$	\mathbf{C}
CTRR_tauecc	$(\bar{e}_L \sigma^{\mu u} au_R) (\bar{c}_L \sigma_{\mu u} c_R)$	\mathbf{C}
CTRR_etauuu	$(\bar{\tau}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	\mathbf{C}
CTRR_etaucc	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{c}_L\sigma_{\mu u}c_R)$	\mathbf{C}
CSRR_tauedd	$(ar{e}_L au_R)(ar{d}_Ld_R)$	\mathbf{C}

WC name	Operator	Type
CSRR_tauess	$(\bar{e}_L \tau_R)(\bar{s}_L s_R)$	C
CSRR_etaudd	$(ar{ au}_L e_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
CSRR_etauss	$(ar{ au}_L e_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
CTRR_tauedd	$(ar{e}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}d_R)$	\mathbf{C}
CTRR_tauess	$(\bar{e}_L\sigma^{\mu u} au_R)(\bar{s}_L\sigma_{\mu u}s_R)$	\mathbf{C}
CTRR_etaudd	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}d_R)$	\mathbf{C}
CTRR_etauss	$(ar{ au}_L \sigma^{\mu u} e_R) (ar{s}_L \sigma_{\mu u} s_R)$	$^{\mathrm{C}}$

nunumue

WC name	Operator	Type
CVLL_nuenuemue	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	C
CVLL_numunueemu	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{\mu}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_numunuemue	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
CVLL_numunumumue	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\mu L}) (\bar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
CVLL_nutaunueemu	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{\mu}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_nutaunuemue	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
CVLL_nutaunumuem	$\mathrm{u}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_nutaunumumu	e $(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
CVLL_nutaunutaum	$u ullet ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
CVLR_nuenuemue	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{e}_R\gamma_{\mu}\mu_R)$	$^{\mathrm{C}}$
CVLR_numunueemu	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{\mu}_R\gamma_{\mu}e_R)$	$^{\mathrm{C}}$
CVLR_numunuemue	$(\bar{\nu}_{eL}\gamma^{\mu} u_{\mu L})(\bar{e}_R\gamma_{\mu}\mu_R)$	$^{\mathrm{C}}$
CVLR_numunumumue	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\mu L}) (\bar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$
CVLR_nutaunueemu	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{\mu}_R\gamma_{\mu}e_R)$	$^{\mathrm{C}}$
CVLR_nutaunuemue	$(\bar{\nu}_{eL}\gamma^{\mu} u_{\tau L})(\bar{e}_R\gamma_{\mu}\mu_R)$	$^{\mathrm{C}}$
CVLR_nutaunumuem	$\mathrm{u}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
CVLR_nutaunumumu	e $(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$
CVLR_nutaunutaum	$\mathbf{u} \stackrel{\leftarrow}{\mathbf{e}} \bar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (\bar{e}_R \gamma_{\mu} \mu_R)$	C

${\tt nunumutau}$

WC name	Operator	Type
CVLL_nuenueta	ımu $(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	C
CVLL_numunuemu	ıtau $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
CVLL_numunueta	$ au$ mu $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	\mathbf{C}
CVLL_numunumut	$ au = (ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{\mu}_{L} \gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_nutaunuer	$ au$ nuta $ar{\psi}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
CVLL_nutaunuet	au = au = au = au = au = au = au	$^{\mathrm{C}}$
CVLL_nutaunum	$\mathtt{imut}(ar{oldsymbol{u}}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	\mathbf{C}
CVLL_nutaunum	$\mathrm{itaum}ar{oldsymbol{u}}_{\mu L}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	\mathbf{C}

WC name	Operator	Type
CVLL_nutaunutau	taփար $_L\gamma^\mu u_{ au L})(ar{\mu}_L\gamma_\mu au_L)$	C
CVLR_nuenuetaum	u $(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	\mathbf{C}
CVLR_numunuemut	au $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu}\mu_{R})$	\mathbf{C}
CVLR_numunuetau	mu $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	\mathbf{C}
CVLR_numunumuta	au $ au$	C
CVLR_nutaunuemu	ta $ar{\psi}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu}\mu_{R})$	\mathbf{C}
CVLR_nutaunueta	um ($ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
CVLR_nutaunumum	ut $(ar{m{u}}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu}\mu_{R})$	C
CVLR_nutaunumut	aum $ar{m{u}}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{\mu}_R \gamma_{\mu} au_R)$	C
CVLR_nutaunutau	ta $(ar{m} \mu_L \gamma^\mu u_{ au L})(ar{\mu}_R \gamma_\mu au_R)$	\mathbf{C}

nunutaue

WC name	Operator	Type
CVLL_nuenuetaue	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{L}\gamma_{\mu} au_{L})$	C
CVLL_numunueetau	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_numunuetaue	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_numunumutau	e $(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{e}_L \gamma_{\mu} au_L)$	$^{\mathrm{C}}$
CVLL_nutaunueeta	u $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
	e $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_nutaunumuet	au $ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{ au}_L \gamma_{\mu} e_L)$	С
_	u $igl(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu} au_{L})$	\mathbf{C}
CVLL_nutaunutaut	a ($ar{m{e}}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_L \gamma_{\mu} au_L)$	С
_	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{ au}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
_	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
	e $(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{e}_R \gamma_{\mu} au_R)$	$^{\mathrm{C}}$
	ບ $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
	e $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
	au $ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{ au}_R \gamma_{\mu} e_R)$	$^{\mathrm{C}}$
	u $igl(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{e}_R\gamma_{\mu} au_R)$	С
CVLR_nutaunutaut	a ($ar{m{e}}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_R \gamma_{\mu} au_R)$	\mathbf{C}

ffnunu

WC name	Operator	Type
CVLL_nuenuecc	$\begin{array}{l} \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{c}_L\gamma_{\mu}c_L) \\ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{d}_L\gamma_{\mu}d_L) \\ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{e}_L\gamma_{\mu}e_L) \end{array}$	R
CVLL_nuenuedd	$rac{4 ar{G_F}}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu u_{eL}) (ar{d}_L \gamma_\mu d_L)$	R
CVLL_nuenueee	$rac{4ar{G_F}}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_L\gamma_{\mu}e_L)$	\mathbf{R}
CVLL_nuenuemumu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{\mu}_L\gamma_{\mu}\mu_L)$	\mathbf{R}
CVLL_nuenuess	$rac{4reve{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{s}_L\gamma_{\mu}s_L)$	R

WC name	Operator	Type
CVLL_nuenuetautau	$1 \frac{4G_F}{\sqrt{2}} (\bar{\nu}_{eL} \gamma^{\mu} \nu_{eL}) (\bar{\tau}_L \gamma_{\mu} \tau_L)$	R
CVLL_nuenueuu	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{u}_L\gamma_{\mu}u_L)$	R
CVLL_nuenumucc	$rac{4 \overset{\circ}{G_F}}{\sqrt{2}} (ar{ u}_{eL} \gamma^{\mu} u_{\mu L}) (ar{c}_L \gamma_{\mu} c_L)$	\mathbf{C}
CVLL_nuenumudd	$rac{4\overset{\circ}{G_F}}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_L\gamma_{\mu}d_L)$	\mathbf{C}
CVLL_nuenumuee	$rac{4 { m G}_F}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu u_{\mu L}) (ar{e}_L \gamma_\mu e_L)$	\mathbf{C}
CVLL_nuenumumumu	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{ u}_{eL} \gamma^\mu u_{\mu L}) (\bar{\mu}_L \gamma_\mu \mu_L)$	\mathbf{C}
CVLL_nuenumuss	$rac{4 { m G}_F}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu u_{\mu L}) (ar{s}_L \gamma_\mu s_L)$	\mathbf{C}
CVLL_nuenumutauta	$\sinrac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{\mu L})(ar{ au}_L\gamma_\mu au_L)$	\mathbf{C}
CVLL_nuenumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{u}_L\gamma_{\mu}u_L)$	\mathbf{C}
CVLL_nuenutaucc	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu u_{ au L}) (ar{c}_L \gamma_\mu c_L)$	\mathbf{C}
CVLL_nuenutaudd	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{d}_L\gamma_\mu d_L)$	\mathbf{C}
CVLL_nuenutauee	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{e}_L\gamma_\mu e_L)$	$^{\mathrm{C}}$
CVLL_nuenutaumumu	$1 rac{4 G_F}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu u_{ au L}) (ar{\mu}_L \gamma_\mu \mu_L)$	$^{\mathrm{C}}$
CVLL_nuenutauss	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{s}_L\gamma_\mu s_L)$	$^{\mathrm{C}}$
CVLL_nuenutautaut	$\Xi_{\sqrt{2}}^{4G_F}(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_nuenutauuu	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{u}_L\gamma_\mu u_L)$	$^{\mathrm{C}}$
CVLL_numunumucc	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{c}_L\gamma_\mu c_L)$	R
${\tt CVLL_numunumudd}$	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{d}_L\gamma_\mu d_L)$	R
CVLL_numunumuee	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{e}_L\gamma_\mu e_L)$	R
CVLL_numunumumumumumumumumumumumumumumumumum	$1 rac{4G_F}{\sqrt{2}} (ar{ u}_{\mu L} \gamma^\mu u_{\mu L}) (ar{\mu}_L \gamma_\mu \mu_L)$	R
CVLL_numunumuss	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{s}_L\gamma_\mu s_L)$	R
CVLL_numunumutaut	$\Xi_{\sqrt{2}}^{4G_F}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{ au}_L\gamma_{\mu} au_L)$	R
CVLL_numunumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\mu L})(\bar{u}_L\gamma_{\mu}u_L)$	R
CVLL_numunutaucc	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{c}_L\gamma_\mu c_L)$	$^{\mathrm{C}}$
${\tt CVLL_numunutaudd}$	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{d}_L\gamma_\mu d_L)$	$^{\mathrm{C}}$
CVLL_numunutauee	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{e}_L\gamma_\mu e_L)$	$^{\mathrm{C}}$
CVLL_numunutaumun	$\sinrac{dG_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{\mu}_L\gamma_\mu\mu_L)$	$^{\mathrm{C}}$
CVLL_numunutauss	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{s}_L\gamma_\mu s_L)$	$^{\mathrm{C}}$
CVLL_numunutautau	$nt_{\sqrt{2}}^{AGF}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
${\tt CVLL_numunutauuu}$	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_L\gamma_{\mu}u_L)$ $\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{c}_L\gamma_{\mu}c_L)$ $\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{c}_L\gamma_{\mu}c_L)$	$^{\mathrm{C}}$
CVLL_nutaunutauco	$\approx rac{4G_F}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu u_{ au L}) (ar{c}_L \gamma_\mu c_L)$	R
CVLL_nutaunutaudo	$d\frac{4\sigma_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(d_L\gamma_{\mu}d_L)$	R
CVLL_nutaunutaue	$e^{rac{4G_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{e}_L\gamma_{\mu}e_L)}$	R
CVLL_nutaunutaumu	$\lim_{N \to \infty} \frac{AG_F}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu u_{ au L}) (ar{\mu}_L \gamma_\mu \mu_L)$	R
	$s rac{4 \widetilde{G_F}}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu u_{ au L}) (ar{s}_L \gamma_\mu s_L)$	R
CVLL_nutaunutauta	$u_{TL}^{V_{TL}}(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	R
CVLL_nutaunutauuu	$1 \frac{4\overset{2}{G_{2}}}{\sqrt{2}} (\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L}) (\bar{u}_{L} \gamma_{\mu} u_{L})$	R

WC name	Operator	Type
CVLR_nuenuecc	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{c}_R\gamma_{\mu}c_R)$	R
CVLR_nuenuedd	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{d}_R\gamma_{\mu}d_R)$	\mathbf{R}
CVLR_nuenueee	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{e}_R\gamma_{\mu}e_R)$	\mathbf{R}
CVLR_nuenuemumu	$\frac{4\overset{.}{G_F}}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{\mu}_R\gamma_{\mu}\mu_R)$	\mathbf{R}
CVLR_nuenuess	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{s}_R\gamma_{\mu}s_R)$	\mathbf{R}
CVLR_nuenuetautau	$1 rac{4 \check{G}_F^{ \prime}}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu u_{eL}) (ar{ au}_R \gamma_\mu au_R)$	\mathbf{R}
CVLR_nuenueuu	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{u}_R\gamma_{\mu}u_R)$	\mathbf{R}
CVLR_nuenumucc	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{c}_R\gamma_{\mu}c_R)$	\mathbf{C}
CVLR_nuenumudd	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_R\gamma_{\mu}d_R)$	\mathbf{C}
CVLR_nuenumuee	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_R\gamma_{\mu}e_R)$	\mathbf{C}
CVLR_nuenumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{\mu}_R\gamma_{\mu}\mu_R)$	\mathbf{C}
CVLR_nuenumuss	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_R\gamma_{\mu}s_R)$	\mathbf{C}
CVLR_nuenumutauta		\mathbf{C}
CVLR_nuenumuuu	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{\mu L})(ar{u}_R\gamma_\mu u_R)$	\mathbf{C}
CVLR_nuenutaucc	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{c}_R\gamma_{\mu}c_R)$	\mathbf{C}
CVLR_nuenutaudd	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_R\gamma_{\mu}d_R)$	\mathbf{C}
CVLR_nuenutauee	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu} u_{\tau L})(\bar{e}_R\gamma_{\mu}e_R)$	\mathbf{C}
CVLR_nuenutaumumu		\mathbf{C}
CVLR_nuenutauss	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{s}_R\gamma_\mu s_R)$	\mathbf{C}
CVLR_nuenutautaut	VZ	\mathbf{C}
CVLR_nuenutauuu	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{u}_R\gamma_\mu u_R)$	\mathbf{C}
CVLR_numunumucc	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{c}_R\gamma_{\mu}c_R)$	R
CVLR_numunumudd	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\mu L})(d_R\gamma_{\mu}d_R)$	R
CVLR_numunumuee	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{e}_R\gamma_{\mu}e_R)$	R
CVLR_numunumumumu	$\sqrt{2}$ $\langle \mu Z \rangle$ $\langle \mu Z \rangle$ $\langle \mu Z \rangle$ $\langle \mu Z \rangle$	R
CVLR_numunumuss	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{s}_R\gamma_{\mu}s_R)$	R
	$\pm rac{4ar{G}_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{ au}_R\gamma_\mu au_R)$	\mathbf{R}
CVLR_numunumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\mu L})(\bar{u}_R\gamma_{\mu}u_R)$	R
CVLR_numunutaucc	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{c}_R\gamma_{\mu}c_R)$	C
CVLR_numunutaudd	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{d}_R\gamma_\mu d_R)$	C
CVLR_numunutauee	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{e}_R\gamma_{\mu}e_R)$	C
CVLR_numunutaumun	$\int_{C_{-}}^{dC_{-}} (ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{\mu}_{R} \gamma_{\mu} \mu_{R})$	С
	$\frac{4G_F^2}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{s}_R\gamma_\mu s_R)$	С
	$i\frac{\Delta i_F}{\Delta C_{\tau}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{\tau}_R\gamma_{\mu}\tau_R)$	С
CVLK_numunutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R)$	С
CVLK_nutaunutauco	$\approx rac{4G_F}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu u_{ au L}) (ar{c}_R \gamma_\mu c_R)$	R
CVLR_nutaunutaudo	$4 rac{4 ar{G}_F}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu u_{ au L}) (ar{d}_R \gamma_\mu d_R)$	R

WC name	Operator	Type
CVLR_nutaunutaue	e $\frac{4G_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{e}_R\gamma_\mu e_R)$	${ m R}$
CVLR_nutaunutaum	$\lim_{N \to \infty} \frac{4G_F}{2} (ar{ u}_{ au L} \gamma^\mu u_{ au L}) (ar{\mu}_R \gamma_\mu \mu_R)$	R
CVLR_nutaunutaus	s $\frac{4G_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{s}_R\gamma_\mu s_R)$	R
CVLR_nutaunutaut	au $(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{ au}_{R} \gamma_{\mu} au_{R})$	R
CVLR_nutaunutauu	$\begin{array}{l} \mathrm{e} \ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{e}_R\gamma_{\mu}e_R) \\ \mathrm{unif} \ \frac{G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{\mu}_R\gamma_{\mu}\mu_R) \\ \mathrm{s} \ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{s}_R\gamma_{\mu}s_R) \\ \mathrm{aut} \ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{\tau}_R\gamma_{\mu}\tau_R) \\ \mathrm{u} \ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R) \end{array}$	${ m R}$

${\tt muemutau}$

WC name	Operator	Type
CVLL_muemutau	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\tau}_L \gamma_\mu \mu_L)$	С
CVRR_muemutau	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\tau}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_muemutau	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\tau}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_taumuemu	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{\mu}_R \gamma_\mu e_R)$	\mathbf{C}
CSRR_muemutau	$(\bar{e}_L \mu_R)(\bar{\tau}_L \mu_R)$	\mathbf{C}
CSRR_emutaumu	$(\bar{\mu}_L e_R)(\bar{\mu}_L au_R)$	С

${\tt etauemu}$

WC name	Operator	Type
CVLL_muetaue	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_L \gamma_\mu \tau_L)$	С
CVRR_muetaue	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{e}_R \gamma_\mu \tau_R)$	\mathbf{C}
CVLR_muetaue	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \tau_R)$	\mathbf{C}
CVLR_tauemue	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CSRR_muetaue	$(\bar{e}_L \mu_R)(\bar{e}_L \tau_R)$	\mathbf{C}
CSRR_emuetau	$(\bar{\mu}_L e_R)(\bar{\tau}_L e_R)$	\mathbf{C}