# 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	$(\bar{c}_R u_L)(\bar{c}_L u_R)$	$\mathbf{C}$

 $\operatorname{sd}$ 

WC name	Operator	Type
C9_sdee	$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}e)$	C
C9p_sdee	$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}e)$	$^{\mathrm{C}}$
C10_sdee	$\frac{4\dot{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}\frac{e^{2}}{16\pi^{2}}(\bar{d}_{L}\gamma^{\mu}s_{L})(\bar{e}\gamma_{\mu}\gamma_{5}e)$	$\mathbf{C}$

WC name	Operator	Type
C10p_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{e}\gamma_{\mu}\gamma_5 e)$	С
CS_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e}e)$	$\mathbf{C}$
CSp_sdee	$\frac{4Q_F^2}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{e}e)$	$\mathbf{C}$
CP_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e}\gamma_5 e)$	$\mathbf{C}$
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	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{\mu}\gamma_{\mu}\mu)$	$\mathbf{C}$
C10_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\mu}\gamma_{\mu}\gamma_5\mu)$	$\mathbf{C}$
C10p_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{\mu}\gamma_{\mu}\gamma_5\mu)$	$\mathbf{C}$
CS_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}\mu)$	$\mathbf{C}$
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	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}\gamma_5\mu)$	C
CPp_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{\mu}\gamma_5\mu)$	$^{\mathrm{C}}$
C9_sdtautau	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu s_L)(\bar{\tau}\gamma_\mu  au)$	$\mathbf{C}$
C9p_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 au)$	$^{\mathrm{C}}$
C10_sdtautau	$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 au)$	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	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{ au} au)$	$\mathbf{C}$
CSp_sdtautau	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}m_s(ar{d}_Rs_L)(ar{ 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	$\frac{4V_{L}^{2}}{\sqrt{2}}V_{ts}V_{td}^{*}\frac{e}{16\pi^{2}}m_{s}(\bar{d}_{L}\sigma^{\mu\nu}s_{R})F_{\mu\nu}$	$\mathbf{C}$
C7p_sd	$rac{4 \check{G_F}}{\sqrt{2}} V_{ts} V_{td}^* rac{e}{16\pi^2} m_s (\bar{d}_R \sigma^{\mu  u} s_L) F_{\mu  u}$	$^{\mathrm{C}}$
C8_sd	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{g_s}{16\pi^2}m_s(\bar{d}_L\sigma^{\mu u}T^as_R)G_{\mu u}^a$	$^{\mathrm{C}}$
C8p_sd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{g_s}{16\pi^2} m_s(\bar{d}_R \sigma^{\mu\nu} T^a s_L) G_{\mu\nu}^a$	$^{\mathrm{C}}$
CVLL_sdss	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu s_L)$	$\mathbf{C}$
CVLR_sdss	$rac{4ar{G}_F^2}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu s_R)$	С
CVRL_sdss	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{s}_L\gamma_\mu s_L)$	C
CVRR_sdss	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(d_R\gamma^\mu s_R)(\bar{s}_R\gamma_\mu s_R)$	С
CSLL_sdss	$\frac{4GF}{\sqrt{2}}V_{ts}V_{td}^*(d_Rs_L)(\bar{s}_Rs_L)$	С
CSLR_sdss	$\frac{4GF}{\sqrt{2}}V_{ts}V_{td}^*(d_Rs_L)(\bar{s}_Ls_R)$	C
CSRL_sdss	$\frac{4GF}{\sqrt{2}}V_{ts}V_{td}^*(d_Ls_R)(\bar{s}_Rs_L)$	C
CSRR_sdss	$\frac{4GF}{\sqrt{2}}V_{ts}V_{td}^*(d_Ls_R)(\bar{s}_Ls_R)$	C
CTLL_sdss	$\begin{array}{c} \frac{\sqrt{2}}{\sqrt{2}} V_{ts} V_{td}^*(d_R \gamma^{\mu} s_R) (\bar{s}_R \gamma_{\mu} s_R) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_R s_L) (\bar{s}_R s_L) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_R s_L) (\bar{s}_L s_R) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_L s_R) (\bar{s}_L s_R) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_L s_R) (\bar{s}_R s_L) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_L s_R) (\bar{s}_L s_R) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_R \sigma^{\mu\nu} s_L) (\bar{s}_R \sigma_{\mu\nu} s_L) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^*(\bar{d}_L \sigma^{\mu\nu} s_R) (\bar{s}_L \sigma_{\mu\nu} s_R) \end{array}$	С
CTRR_sdss	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(d_L\sigma^{\mu\nu}s_R)(\bar{s}_L\sigma_{\mu\nu}s_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
CVLL_sddd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{d}_L\gamma_\mu d_L)$	$^{\mathrm{C}}$
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)$	$\mathbf{C}$
CVRL_sddd	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{d}_L\gamma_\mu d_L)$	$\mathbf{C}$
CVRR_sddd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{d}_R\gamma_\mu d_R)$	$\mathbf{C}$
CSLL_sddd	$\frac{4\ddot{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}(\bar{d}_{R}s_{L})(\bar{d}_{R}d_{L})$	$\mathbf{C}$
CSLR_sddd	$\frac{4\ddot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{d}_Ld_R)$	$\mathbf{C}$
CSRL_sddd	$rac{4ar{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Ls_R)(ar{d}_Rd_L)$	$\mathbf{C}$
CSRR_sddd	$rac{4reve{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L s_R)(ar{d}_L d_R)$	$\mathbf{C}$
CTLL_sddd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\sigma^{\mu\nu}s_L)(\bar{d}_R\sigma_{\mu\nu}d_L)$	$\mathbf{C}$
CTRR_sddd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\sigma^{\mu\nu}s_R)(\bar{d}_L\sigma_{\mu\nu}d_R)$	$\mathbf{C}$
CVLL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{u}_L\gamma_\mu u_L)$	$\mathbf{C}$
CVLR_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{u}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
CVRL_sduu	$\frac{4\bar{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{u}_L\gamma_\mu u_L)$	$\mathbf{C}$
CVRR_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{u}_R\gamma_\mu u_R)$	$\mathbf{C}$
CSLL_sduu	$\frac{4\tilde{G}_{F}}{\sqrt{2}}V_{ts}V_{td}^{*}(\bar{d}_{R}s_{L})(\bar{u}_{R}u_{L})$	$^{\mathrm{C}}$
CSLR_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Rs_L)(ar{u}_Lu_R)$	$^{\mathrm{C}}$
CSRL_sduu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L s_R)(\bar{u}_R u_L)$	$\mathbf{C}$
CSRR_sduu	$\frac{4G_F^2}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L s_R)(\bar{u}_L u_R) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R \sigma^{\mu\nu} s_L)(\bar{u}_R \sigma_{\mu\nu} u_L)$	$^{\mathrm{C}}$
CTLL_sduu		$^{\mathrm{C}}$
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)$	$\mathbf{C}$
CVLRt_sduu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^{\alpha}\gamma^{\mu}s_L^{\beta})(\bar{u}_R^{\beta}\gamma_{\mu}u_R^{\alpha})$	$\mathbf{C}$
CVRLt_sduu	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R^{lpha}\gamma^{\mu}s_R^{eta})(\bar{u}_L^{eta}\gamma_{\mu}u_L^{lpha})$	$\mathbf{C}$
CVRRt_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha\gamma^\mu s_R^eta)(ar{u}_R^eta\gamma_\mu u_R^lpha)$	$\mathbf{C}$
CSLLt_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha s_L^eta)(ar{u}_R^eta u_L^lpha)$	$\mathbf{C}$
CSLRt_sduu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha s_L^eta)(ar{u}_L^eta u_R^lpha)$	$\mathbf{C}$
CSRLt_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^{lpha}s_R^{eta})(\bar{u}_R^{eta}u_L^{lpha})$	$^{\mathrm{C}}$
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)$	$^{\mathrm{C}}$
CTLLt_sduu	$\frac{4G_F}{G_F}V_{ts}V_{ts}^*(\bar{d}_D^{\alpha}\sigma^{\mu\nu}s_L^{\beta})(\bar{u}_D^{\beta}\sigma_{\mu\nu}u_L^{\alpha})$	$^{\mathrm{C}}$
CTRRt_sduu	$\frac{4G_F}{\overline{c}}V_{ts}V_{ts}^{\prime\prime}(\bar{d}_1^{\alpha}\sigma^{\mu\nu}s_D^{\beta})(\bar{u}_1^{\beta}\sigma_{\mu\nu}u_D^{\alpha})$	$^{\mathrm{C}}$
- CVLL_sdcc	$\frac{\sqrt{2}}{\sqrt{E}} V_{ts} V_{td}^* (\bar{d}_L \gamma^\mu s_L) (\bar{c}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
CVLR_sdcc	$ \begin{array}{l} \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) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^* (\bar{d}_L \gamma^\mu s_L) (\bar{c}_L \gamma_\mu c_L) \\ \frac{4G_F}{\sqrt{2}} V_{ts} V_{td}^* (\bar{d}_L \gamma^\mu s_L) (\bar{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) \end{array} $	$^{\mathrm{C}}$
- CVRL_sdcc	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{c}_L\gamma_\mu c_L)$	$^{\mathrm{C}}$
- CVRR_sdcc	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{c}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
- CSLL_sdcc	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{c}_Rc_L)$	$\mathbf{C}$
CSLR_sdcc	$4G_{FV}V^{*}(\bar{J}, \alpha)(\bar{a}, \alpha)$	$^{\mathrm{C}}$

WC name	Operator	Type
CSRL_sdcc	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{c}_Rc_L)$	C
CSRR_sdcc	$rac{4ar{G}_F^2}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_L s_R)(ar{c}_L c_R)$	$\mathbf{C}$
CTLL_sdcc	$rac{4reve{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\sigma^{\mu u}s_L)(ar{c}_R\sigma_{\mu u}c_L)$	$\mathbf{C}$
CTRR_sdcc	$rac{4ar{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	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} V_{ts} V_{td}^* (\overline{d}_L^{lpha} \gamma^{\mu} s_L^{eta}) (\overline{c}_L^{eta} \gamma_{\mu} c_L^{lpha})$	$\mathbf{C}$
CVLRt_sdcc	$\frac{4 \overline{G_F}}{\sqrt{2}} V_{ts} V_{td}^* (\bar{d}_L^{lpha} \gamma^{\mu} s_L^{eta}) (\bar{c}_R^{eta} \gamma_{\mu} c_R^{lpha})$	$\mathbf{C}$
CVRLt_sdcc	$rac{4ar{Q_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{4G_F^2}{\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{4ec{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{4ec{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{4ec{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}^{2}}{\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{4ec{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	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^\alpha\sigma^{\mu\nu}s_R^\beta)(\bar{c}_L^\beta\sigma_{\mu\nu}c_R^\alpha)$	С

#### sdnunu

WC name	Operator	Type
CL_sdnuenue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_e)$	C
${\tt CL\_sdnumunumu}$	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	$\mathbf{C}$
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	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	$\mathbf{C}$
${\tt CL\_sdnutaunumu}$	$rac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*rac{e^2}{16\pi^2}(ar{s}_L\gamma^{\mu}d_L)(ar{ u}_{\mu}\gamma_{\mu}(1-\gamma_5) u_{ au})$	$\mathbf{C}$
CL_sdnuenutau	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_e)$	$\mathbf{C}$
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	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_e)$	$\mathbf{C}$
$\mathtt{CR\_sdnumunumu}$	$rac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*rac{e^2}{16\pi^2}(ar{s}_R\gamma^{\mu}d_R)(ar{ u}_{\mu}\gamma_{\mu}(1-\gamma_5) u_{\mu})$	$\mathbf{C}$
CR_sdnutaunutau	$rac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*rac{e^2}{16\pi^2}(ar{s}_R\gamma^{\mu}d_R)(ar{ u}_{ au}\gamma_{\mu}(1-\gamma_5) u_{ au})$	$\mathbf{C}$
CR_sdnuenumu	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu d_R)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5)\nu_e)$	$\mathbf{C}$
CR_sdnumunue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu d_R) (\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\mu)$	$\mathbf{C}$
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	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_{\tau})$	$\mathbf{C}$

WC name	Operator	Type
CR_sdnuenutau	$rac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*rac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{ au}\gamma_{\mu}(1-\gamma_5)\nu_e)$	С
CR_sdnutaunue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_{\tau})$	С

#### 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	$-\frac{4\widetilde{G}_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	$\mathbf{C}$
CSR_suenue	$-rac{4ar{V}_F}{\sqrt{2}}V_{us}(ar{u}_L s_R)(ar{e}_R  u_{eL})$	$\mathbf{C}$
CSL_suenue	$-\frac{4\widetilde{G_F}}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{e}_R u_{eL})$	$\mathbf{C}$
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	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{us}(ar{u}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CVR_suenumu	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{us}(ar{u}_R\gamma^\mu s_R)(ar{e}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CSR_suenumu	$-rac{4\check{G}_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{e}_R  u_{\mu L})$	$\mathbf{C}$
CSL_suenumu	$-rac{4\check{G}_F}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{e}_R u_{\mu L})$	$\mathbf{C}$
CT_suenumu	$-rac{4reve{G_F}}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{\mu L})$	$\mathbf{C}$
CVL_suenutau	$-rac{4reve{Q_F}}{\sqrt{2}}V_{us}(ar{u}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{ au L})$	$\mathbf{C}$
CVR_suenutau	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{us}(ar{u}_R\gamma^\mu s_R)(ar{e}_L\gamma_\mu u_{ au L})$	$\mathbf{C}$
CSR_suenutau	$-rac{4ar{Q}_F^2}{\sqrt{2}}V_{us}(ar{u}_L s_R)(ar{e}_R  u_{ au L})$	$\mathbf{C}$
CSL_suenutau	$-rac{4\overset{\sim}{G_F}}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{e}_R u_{ au L})$	$\mathbf{C}$
CT_suenutau	$-rac{4\widetilde{G_F}}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{ au L})$	$\mathbf{C}$

#### csenu

WC name	Operator	Type
CVL_scenue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^{\mu}s_L)(\bar{e}_L\gamma_{\mu}\nu_{eL})$	С
CVR_scenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^{\mu}s_R)(\bar{e}_L\gamma_{\mu}\nu_{eL})$	$^{\mathrm{C}}$
CSR_scenue	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_L s_R)(ar{e}_R  u_{eL})$	$\mathbf{C}$
CSL_scenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{e}_R u_{eL})$	$\mathbf{C}$
CT_scenue	$-rac{4 ilde{G_F}}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{eL})$	$\mathbf{C}$
CVL_scenumu	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CVR_scenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{e}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CSR_scenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_L s_R)(ar{e}_R  u_{\mu L})$	$\mathbf{C}$
CSL_scenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_Rs_L)(ar{e}_R u_{\mu L})$	$\mathbf{C}$
CT_scenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{\mu L})$	$\mathbf{C}$

WC name	Operator	Type
CVL_scenutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^{\mu}s_L)(\bar{e}_L\gamma_{\mu}\nu_{\tau L})$	С
CVR_scenutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^{\mu}s_L)(\bar{e}_L\gamma_{\mu}\nu_{\tau L}) \\ -\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^{\mu}s_R)(\bar{e}_L\gamma_{\mu}\nu_{\tau L})$	$\mathbf{C}$
CSR_scenutau	$-\frac{4G_F}{\sqrt{c}}V_{cs}(\bar{c}_L s_R)(\bar{e}_R \nu_{\tau L})$	$\mathbf{C}$
CSL_scenutau	$-\frac{4\overline{G_F}}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{e}_R \nu_{\tau L})$	$\mathbf{C}$
CT_scenutau	$-rac{4reve{G}_F^c}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{ au L})$	С

# cdenu

WC name	Operator	Type
CVL_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	$\mathbf{C}$
CVR_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	$^{\mathrm{C}}$
CSR_dcenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{e}_R\nu_{eL})$	$^{\mathrm{C}}$
CSL_dcenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_Rd_L)(\bar{e}_R\nu_{eL})$	$^{\mathrm{C}}$
CT_dcenue	$-\frac{4\tilde{G}_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu}d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	$^{\mathrm{C}}$
CVL_dcenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cd}(ar{c}_L\gamma^\mu d_L)(ar{e}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CVR_dcenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cd}(ar{c}_R\gamma^\mu d_R)(ar{e}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CSR_dcenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cd}(ar{c}_Ld_R)(ar{e}_R u_{\mu L})$	$\mathbf{C}$
CSL_dcenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cd}(ar{c}_Rd_L)(ar{e}_R u_{\mu L})$	$\mathbf{C}$
CT_dcenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{cd}(ar{c}_R\sigma^{\mu u}d_L)(ar{e}_R\sigma_{\mu u} u_{\mu L})$	$\mathbf{C}$
CVL_dcenutau	$-rac{4 ar{G_F}}{\sqrt{2}} V_{cd}(ar{c}_L \gamma^\mu d_L) (ar{e}_L \gamma_\mu  u_{ au L})$	$\mathbf{C}$
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	$-\frac{4\widetilde{G_F}}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{e}_R u_{\tau L})$	$\mathbf{C}$
CSL_dcenutau	$-rac{4 ar{G_F}}{\sqrt{2}} V_{cd}(ar{c}_R d_L) (ar{e}_R  u_{ au L})$	$\mathbf{C}$
CT_dcenutau	$-rac{4 \widetilde{G}_F}{\sqrt{2}} V_{cd} (ar{c}_R \sigma^{\mu  u} d_L) (ar{e}_R \sigma_{\mu  u}  u_{ au L})$	C

# 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	$-\frac{\sqrt{G_F}}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^{\mu}s_R)(\bar{\mu}_L\gamma_{\mu}\nu_{eL}) \\ -\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Ls_R)(\bar{\mu}_R\nu_{eL})$	$\mathbf{C}$
CSR_sumunue	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_L s_R)(ar{\mu}_R  u_{eL})$	$\mathbf{C}$
CSL_sumunue	$-\frac{4\bar{G_F}}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{\mu}_R\nu_{eL})$	$\mathbf{C}$
CT_sumunue	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{eL})$	$\mathbf{C}$
$CVL\_sumunumu$	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_L\gamma^\mu s_L)(ar{\mu}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CVR_sumunumu	$-\frac{\sqrt{2}}{\sqrt{2}}V_{us}(\bar{u}_{R}s_{L})(\bar{\mu}_{R}\nu_{eL}) \\ -\frac{4G_{F}}{\sqrt{2}}V_{us}(\bar{u}_{R}\sigma_{\mu\nu}s_{L})(\bar{\mu}_{R}\sigma_{\mu\nu}\nu_{eL}) \\ -\frac{4G_{F}}{\sqrt{2}}V_{us}(\bar{u}_{L}\gamma^{\mu}s_{L})(\bar{\mu}_{L}\gamma_{\mu}\nu_{\mu L}) \\ -\frac{4G_{F}}{\sqrt{2}}V_{us}(\bar{u}_{L}\gamma^{\mu}s_{R})(\bar{\mu}_{L}\gamma_{\mu}\nu_{\mu L})$	$\mathbf{C}$

WC name	Operator	Type
CSR_sumunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\mu}_R \nu_{\mu L})$	С
CSL_sumunumu	$-rac{4G_F^2}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{\mu}_R u_{\mu L})$	$\mathbf{C}$
CT_sumunumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{\mu L})$	$\mathbf{C}$
CVL_sumunutau	$-rac{4\overset{\circ}{G_F}}{\sqrt{2}}V_{us}(ar{u}_L\gamma^{\mu}s_L)(ar{\mu}_L\gamma_{\mu} u_{ au L})$	$\mathbf{C}$
CVR_sumunutau	$-rac{4 ilde{G_F}}{\sqrt{2}}V_{us}(ar{u}_R\gamma^\mu s_R)(ar{\mu}_L\gamma_\mu u_{ au L})$	$\mathbf{C}$
CSR_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\mu}_R \nu_{\tau L})$	$\mathbf{C}$
CSL_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{\mu}_R u_{\tau L})$	$\mathbf{C}$
CT_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu}s_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	С

#### 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	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{\mu}_L\gamma_\mu u_{eL})$	$\mathbf{C}$
CSR_scmunue	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(ar{c}_L s_R)(ar{\mu}_R  u_{eL})$	$\mathbf{C}$
CSL_scmunue	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(ar{c}_Rs_L)(ar{\mu}_R u_{eL})$	$\mathbf{C}$
CT_scmunue	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{eL})$	$\mathbf{C}$
CVL_scmunumu	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{\mu}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CVR_scmunumu	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu u_{\mu L})$	$\mathbf{C}$
CSR_scmunumu	$-rac{4 V_{c}^{2}}{\sqrt{2}} V_{cs}(\bar{c}_{L} s_{R})(\bar{\mu}_{R}  u_{\mu L})$	$\mathbf{C}$
CSL_scmunumu	$-rac{4\overset{\circ}{Q_F^2}}{\sqrt{2}}V_{cs}(ar{c}_Rs_L)(ar{\mu}_R u_{\mu L})$	$\mathbf{C}$
CT_scmunumu	$-rac{4\overset{\circ}{Q_F^2}}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{\mu L})$	$\mathbf{C}$
CVL_scmunutau	$-rac{4\overset{\circ}{Q_F^2}}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{\mu}_L\gamma_\mu u_{ au L})$	$\mathbf{C}$
CVR_scmunutau	$-rac{4rac{rack{G}_F}{\sqrt{2}}}{\sqrt{2}}V_{cs}(ar{c}_R\gamma^\mu s_R)(ar{\mu}_L\gamma_\mu u_{ au L})$	$\mathbf{C}$
CSR_scmunutau	$-rac{4 V_{F}^{2}}{\sqrt{2}} V_{cs}(ar{c}_{L} s_{R})(ar{\mu}_{R}  u_{ au L})$	$\mathbf{C}$
CSL_scmunutau	$-rac{4 V_{c}^2}{\sqrt{2}} V_{cs}(ar{c}_R s_L) (ar{\mu}_R  u_{ au L})$	$\mathbf{C}$
CT_scmunutau	$-rac{4\widetilde{G}_F^2}{\sqrt{2}}V_{cs}(ar{c}_R\sigma^{\mu u}s_L)(ar{\mu}_R\sigma_{\mu u} u_{ au L})$	$\mathbf{C}$

### cdmunu

WC name	Operator	Type
CVL_dcmunue	$-rac{4G_F}{\sqrt{2}}V_{cd}(ar{c}_L\gamma^\mu d_L)(ar{\mu}_L\gamma_\mu u_{eL})$	C
CVR_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{eL}) -\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	$\mathbf{C}$
CSR_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_Ld_R)(\bar{\mu}_R\nu_{eL})$	$\mathbf{C}$
CSL_dcmunue	$-rac{4\overset{\circ}{G_F}}{\sqrt{2}}V_{cd}(ar{c}_Rd_L)(ar{\mu}_R u_{eL})$	$\mathbf{C}$

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

#### ustaunu

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

#### cstaunu

WC name	Operator	Type
CVL_sctaunue	$-rac{4G_F}{\sqrt{2}}V_{cs}(ar{c}_L\gamma^\mu s_L)(ar{ au}_L\gamma_\mu u_{eL})$	С

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

#### ${\tt cdtaunu}$

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

#### udenu

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

# ${\tt udmunu}$

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

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

# dF=0

WC name	Operator	Type
CG	$\frac{4G_F}{\sqrt{2}}f^{ABC}G^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	R
CGtilde	$\frac{{}^{4}\!G_{F}}{\sqrt{2}}f^{ABC}\widetilde{G}_{\mu}^{A\nu}G_{\nu}^{B\rho}G_{\rho}^{C\mu}$ $\frac{{}^{4}\!G_{F}}{\sqrt{2}}\frac{e}{16\pi^{2}}m_{u}\bar{u}_{L}\sigma^{\mu\nu}u_{R}F_{\mu\nu}$	${ m R}$
C7_uu	$rac{4 \overset{\circ}{Q_F}}{\sqrt{2}} rac{e}{16 \pi^2} m_u ar{u}_L \sigma^{\mu  u} u_R F_{\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{4G_F}{\sqrt{2}}rac{e}{16\pi^2}m_dar{d}_L\sigma^{\mu u}d_RF_{\mu u}$	$\mathbf{C}$
C7_ss	$rac{4G_F}{\sqrt{2}}rac{e}{16\pi^2}m_sar{s}_L\sigma^{\mu u}s_RF_{\mu u}$	$^{\mathrm{C}}$
C7_ee	$rac{4G_F}{\sqrt{2}}rac{e}{16\pi^2}m_ear{e}_L\sigma^{\mu u}e_RF_{\mu u}$	$^{\mathrm{C}}$
C7_mumu	$rac{4G_F}{\sqrt{2}}rac{e}{16\pi^2}m_\muar{\mu}_L\sigma^{\mu u}\mu_RF_{\mu u}$	$^{\mathrm{C}}$
C7_tautau	$rac{4 { m 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_{\mu u}^A$	$^{\mathrm{C}}$
C8_ss	$rac{4 ar{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}$	$^{\mathrm{C}}$
CTRR_eeuu	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{e}_L \sigma^{\mu  u} e_R) (\bar{u}_L \sigma_{\mu  u} u_R)$	$\mathbf{C}$
CTRR_mumuuu	$rac{4reve{G}_F}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{u}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
CTRR_tautauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L\sigma^{\mu\nu}\tau_R)(\bar{u}_L\sigma_{\mu\nu}u_R)$	C
CTRR_eedd	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{e}_L \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} d_R)$	$\mathbf{C}$
CTRR_eess	$\frac{4 \overset{\circ}{G_F}}{\sqrt{2}} (\bar{e}_L \sigma^{\mu  u} e_R) (\bar{s}_L \sigma_{\mu  u} s_R)$	$\mathbf{C}$
CTRR_mumudd	$rac{4ar{G_F}}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
CTRR_mumuss	$rac{4 G_F}{\sqrt{2}} (ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{s}_L \sigma_{\mu  u} s_R)$	$\mathbf{C}$
CTRR_tautaudd	$\frac{4G_F}{\sqrt{2}}(ar{ au}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
CTRR_tautauss	$rac{4ar{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{4G_F}{\sqrt{2}}(ar{u}_L u_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
CS1RR_uuss	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L u_R)(\bar{s}_L s_R)$	$^{\mathrm{C}}$
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	$rac{4G_F}{\sqrt{2}}(ar{d}_L d_R)(ar{d}_L d_R)$	$\mathbf{C}$
CS1RR_ddss	$rac{4G_F}{\sqrt{2}}(ar{d}_L d_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
CS1RR_dssd	$rac{4G_F}{\sqrt{2}}(ar{d}_L s_R)(ar{s}_L d_R)$	С
CS1RR_ssss	$rac{4G_F}{\sqrt{2}}(ar{s}_L s_R)(ar{s}_L s_R)$	С
CS8RR_dddd	$\frac{4G_F}{\sqrt{2}}(ar{d}_L T^A d_R)(ar{d}_L T^A d_R)$	$\mathbf{C}$
CS8RR_ddss	$rac{4G_F}{\sqrt{2}}(ar{d}_L T^A d_R)(ar{s}_L T^A s_R)$	$^{\mathrm{C}}$
CS8RR_dssd	$\frac{4G_F}{\sqrt{2}}(ar{d}_L T^A s_R)(ar{s}_L T^A d_R)$	С
CS8RR_ssss	$rac{4G_F}{\sqrt{2}}(ar{s}_L T^A s_R)(ar{s}_L T^A s_R)$	$^{\mathrm{C}}$
CS1RR_uddu	$rac{4G_F}{\sqrt{2}}(ar{u}_L d_R)(ar{d}_L u_R)$	$\mathbf{C}$
CS1RR_ussu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L s_R)(\bar{s}_L u_R)$	С
CS8RR_uddu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	С
CS8RR_ussu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A s_R)(\bar{s}_L T^A u_R)$	$\mathbf{C}$
CS1RR_cccc	$rac{4G_F}{\sqrt{2}}(ar{c}_L c_R)(ar{c}_L c_R)$	$^{\mathrm{C}}$
CS1RR_ccdd	$rac{4G_F}{\sqrt{2}}(ar{c}_L c_R)(ar{d}_L d_R)$	$\mathbf{C}$
CS1RR_ccss	$rac{4G_F}{\sqrt{2}}(ar{c}_L c_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
CS1RR_cddc	$rac{4G_F}{\sqrt{2}}(ar{c}_L d_R)(ar{d}_L c_R)$	$\mathbf{C}$
CS1RR_cssc	$rac{4G_F}{\sqrt{2}}(ar{c}_L s_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
CS1RR_uccu	$rac{4G_F}{\sqrt{2}}(ar{u}_L c_R)(ar{c}_L u_R)$	$^{\mathrm{C}}$
CS1RR_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L u_R)(\bar{c}_L c_R)$	$\mathbf{C}$
CS8RR_cccc	$rac{4G_F}{\sqrt{2}}(ar{c}_L T^A c_R)(ar{c}_L T^A c_R)$	$\mathbf{C}$
CS8RR_ccdd	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A c_R)(d_L T^A d_R)$	$\mathbf{C}$
CS8RR_ccss	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A c_R)(\bar{s}_L T^A s_R)$	$\mathbf{C}$
CS8RR_cddc	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A c_R)(\bar{s}_L T^A s_R)$ $\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A d_R)(\bar{d}_L T^A c_R)$	$\mathbf{C}$
CS8RR_cssc	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L T^A s_R)(\bar{s}_L T^A c_R)$	$\mathbf{C}$
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WC name	Operator	Type
CS8RR_uccu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A c_R)(\bar{c}_L T^A u_R)$	$\mathbf{C}$
CS8RR_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L T^A u_R)(\bar{c}_L T^A c_R)$	$\mathbf{C}$
CSRL_eecc	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{c}_R c_L)$	$\mathbf{C}$
CSRL_eedd	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{d}_R d_L)$	$^{\mathrm{C}}$
CSRL_eess	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{s}_R s_L)$	$^{\mathrm{C}}$
CSRL_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{u}_R u_L)$	$^{\mathrm{C}}$
CSRL_mumucc	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{c}_Rc_L)$	$^{\mathrm{C}}$
CSRL_mumudd	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{d}_Rd_L)$	$\mathbf{C}$
CSRL_mumuss	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{s}_Rs_L)$	$\mathbf{C}$
CSRL_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{u}_Ru_L)$	$\mathbf{C}$
CSRL_tautaucc	$\frac{4G_F}{\sqrt{2}}(\bar{ au}_L au_R)(\bar{c}_Rc_L)$	$\mathbf{C}$
CSRL_tautaudd	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L\tau_R)(\bar{d}_Rd_L)$	$^{\mathrm{C}}$
CSRL_tautauss	$\frac{4G_F}{\sqrt{2}}(\bar{ au}_L au_R)(\bar{s}_Rs_L)$	$\mathbf{C}$
CSRL_tautauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L\tau_R)(\bar{u}_Ru_L)$	$\mathbf{C}$
CSRR_eecc	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{c}_L c_R)$	$\mathbf{C}$
CSRR_eedd	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{d}_L d_R)$	$\mathbf{C}$
CSRR_eeee	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{e}_L e_R)$	$\mathbf{C}$
CSRR_eemumu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{\mu}_L \mu_R)$	$\mathbf{C}$
CSRR_eess	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{s}_L s_R)$	$\mathbf{C}$
CSRR_eetautau	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{\tau}_L \tau_R)$	$\mathbf{C}$
CSRR_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{u}_L u_R)$	$\mathbf{C}$
CSRR_emumue	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\mu_R)(\bar{\mu}_Le_R)$	$\mathbf{C}$
CSRR_etautaue	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\tau_R)(\bar{\tau}_L e_R)$	$\mathbf{C}$
CSRR_mumucc	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{c}_Lc_R)$	$^{\mathrm{C}}$
CSRR_mumudd	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{d}_Ld_R)$	$\mathbf{C}$
CSRR_mumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{\mu}_L\mu_R)$	$^{\mathrm{C}}$
CSRR_mumuss	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{s}_Ls_R)$	$\mathbf{C}$
CSRR_mumutautau	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{\tau}_L\tau_R)$	$^{\mathrm{C}}$
CSRR_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{u}_Lu_R)$	$^{\mathrm{C}}$
CSRR_mutautaumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L \tau_R)(\bar{\tau}_L \mu_R)$	$^{\mathrm{C}}$
CSRR_tautaucc	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L \tau_R)(\bar{c}_L c_R)$	$^{\mathrm{C}}$
CSRR_tautaudd	$\frac{4\overset{\sim}{G_F}}{\sqrt{2}}(\bar{\tau}_L\tau_R)(\bar{d}_Ld_R)$	$^{\mathrm{C}}$
CSRR_tautauss	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L \tau_R)(\bar{d}_L d_R)$ $\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L \tau_R)(\bar{s}_L s_R)$	$\mathbf{C}$
CSRR_tautautautau	$4\frac{4G_F}{\sqrt{2}}(\bar{ au}_L au_R)(\bar{ au}_L au_R)$	$\mathbf{C}$
CSRR_tautauuu	$\frac{\sqrt[4]{G_F}}{\sqrt[4]{2}} (\bar{\tau}_L \tau_R) (\bar{u}_L u_R)$ $\frac{4G_F}{\sqrt[4]{2}} (\bar{e}_L \sigma^{\mu\nu} e_R) (\bar{c}_L \sigma_{\mu\nu} c_R)$ $\frac{4G_F}{\sqrt{2}} (\bar{\mu}_L \sigma^{\mu\nu} \mu_R) (\bar{c}_L \sigma_{\mu\nu} c_R)$	$\mathbf{C}$
CTRR_eecc	$\frac{4\check{G}_F^c}{\sqrt{2}}(\bar{e}_L\sigma^{\mu\nu}e_R)(\bar{c}_L\sigma_{\mu\nu}c_R)$	$\mathbf{C}$
	45°C	$^{\mathrm{C}}$

WC name	Operator	Type
CTRR_tautaucc	$rac{4G_F}{\sqrt{2}}(ar{ au}_L\sigma^{\mu u} au_R)(ar{c}_L\sigma_{\mu u}c_R)$	C
CV1LL_ccdd	$rac{4\ddot{G}_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{d}_L\gamma_\mu d_L)$	R
CV1LL_ccss	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{c}_L\gamma^\mu c_L)(\bar{s}_L\gamma_\mu s_L)$	R
CV1LL_uudd	$rac{4 G_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	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{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{4 G_F}{\sqrt{2}} (ar{d}_L \gamma^\mu d_L) (ar{c}_R \gamma_\mu c_R)$	R
CV1LR_dddd	$rac{4 G_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	$rac{4G_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	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu s_L)(\bar{s}_R\gamma_\mu s_R)$	R
CV1LR_ssuu	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{u}_R\gamma_\mu u_R)$	R
CV1LR_uccu	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu c_L)(ar{c}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
CV1LR_uddu	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu d_L)(ar{d}_R\gamma_\mu u_R)$	$\mathbf{C}$
CV1LR_ussu	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
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{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{d}_R\gamma_\mu d_R)$	R
CV1LR_uuss	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{s}_R\gamma_\mu s_R)$	R
CV1LR_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{u}_R\gamma_\mu u_R)$	R
CV1RR_ccdd	$rac{4 \dot{G}_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{4G_F}{\sqrt{2}}(ar{u}_R\gamma^\mu u_R)(ar{d}_R\gamma_\mu d_R)$	R
CV1RR_uuss	$\frac{4G_F}{\sqrt{2}}(ar{u}_R\gamma^\mu u_R)(ar{s}_R\gamma_\mu s_R)$	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	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^{\mu}T^Ac_L)(\bar{s}_L\gamma_{\mu}T^As_L)$	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	$\frac{4\dot{G}_F}{\sqrt{2}}(\bar{c}_L\gamma^\mu T^Ac_L)(\bar{c}_R\gamma_\mu T^Ac_R)$	R
CV8LR_ccdd	$\begin{array}{c} \frac{\sqrt{2}}{\sqrt{2}} \left( \bar{u}_R \gamma^\mu u_R \right) (\bar{s}_R \gamma_\mu s_R) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{c}_L \gamma^\mu T^A c_L \right) (\bar{d}_L \gamma_\mu T^A d_L) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{c}_L \gamma^\mu T^A c_L \right) (\bar{s}_L \gamma_\mu T^A s_L) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{u}_L \gamma^\mu T^A u_L \right) (\bar{d}_L \gamma_\mu T^A d_L) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{u}_L \gamma^\mu T^A u_L \right) (\bar{s}_L \gamma_\mu T^A s_L) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{c}_L \gamma^\mu T^A c_L \right) (\bar{c}_R \gamma_\mu T^A c_R) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{c}_L \gamma^\mu T^A c_L \right) (\bar{d}_R \gamma_\mu T^A d_R) \\ \end{array}$	R

WC name	Operator	Type
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	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}_L\gamma^{\mu}T^Ac_L)(\bar{u}_R\gamma_{\mu}T^Au_R)$	R
CV8LR_cddc	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{c}_L\gamma^\mu T^A d_L)(\bar{d}_R\gamma_\mu T^A c_R)$	$\mathbf{C}$
CV8LR_cssc	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{c}_L\gamma^\mu T^A s_L)(\bar{s}_R\gamma_\mu T^A c_R)$	$\mathbf{C}$
CV8LR_ddcc	$\frac{4\overset{C}{G_F}}{\sqrt{2}}(\bar{d}_L\gamma^{\mu}T^Ad_L)(\bar{c}_R\gamma_{\mu}T^Ac_R)$	R
CV8LR_dddd	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}_L\gamma^{\mu}T^Ad_L)(\bar{d}_R\gamma_{\mu}T^Ad_R)$	R
CV8LR_ddss	$\frac{4G_F^2}{\sqrt{2}}(\bar{d}_L\gamma^\mu T^A d_L)(\bar{s}_R\gamma_\mu T^A s_R)$	${ m R}$
CV8LR_dduu	$\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^{\mu}T^Ad_L)(\bar{u}_R\gamma_{\mu}T^Au_R)$	${ m R}$
CV8LR_dssd	$\frac{4\overset{G}{G_F}}{\sqrt{2}}(\bar{d}_L\gamma^{\mu}T^As_L)(\bar{s}_R\gamma_{\mu}T^Ad_R)$	$\mathbf{C}$
CV8LR_sscc	$\frac{4\overset{G}{G_F}}{\sqrt{2}}(\bar{s}_L\gamma^{\mu}T^As_L)(\bar{c}_R\gamma_{\mu}T^Ac_R)$	R
CV8LR_ssdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^{\mu}T^As_L)(\bar{d}_R\gamma_{\mu}T^Ad_R)$	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	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Ac_L)(\bar{c}_R\gamma_{\mu}T^Au_R)$	$^{\mathrm{C}}$
CV8LR_uddu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Ad_L)(\bar{d}_R\gamma_{\mu}T^Au_R)$	$^{\mathrm{C}}$
CV8LR_ussu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^As_L)(\bar{s}_R\gamma_{\mu}T^Au_R)$	$^{\mathrm{C}}$
CV8LR_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^Au_L)(\bar{c}_R\gamma_{\mu}T^Ac_R)$	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	$\frac{4G_F}{\sqrt{2}}(\bar{c}_R\gamma^{\mu}T^Ac_R)(\bar{d}_R\gamma_{\mu}T^Ad_R)$	R
CV8RR_ccss	$rac{4G_F}{\sqrt{2}}(ar{c}_R\gamma^\mu T^Ac_R)(ar{s}_R\gamma_\mu T^As_R)$	R
CV8RR_uudd	$rac{4G_F}{\sqrt{2}}(ar{u}_R\gamma^\mu T^A u_R)(d_R\gamma_\mu T^A d_R)$	R
CV8RR_uuss	$\frac{4G_F}{\sqrt{2}}(\bar{u}_R\gamma^\mu T^A u_R)(\bar{s}_R\gamma_\mu T^A s_R)$	R
CVLL_cccc	$\frac{4G_F}{\sqrt{2}}(\bar{c}_L\gamma^\mu c_L)(\bar{c}_L\gamma_\mu c_L)$	R
CVLL_dddd	$\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^\mu d_L)(\bar{d}_L\gamma_\mu d_L)$	R
CVLL_ddss	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^\mu d_L)(\bar{s}_L\gamma_\mu s_L)}{\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^\mu s_L)(\bar{s}_L\gamma_\mu d_L)}$	R
CVLL_dssd	$\frac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu d_L)$	R
CVLL_eecc	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{c}_L\gamma_\mu c_L)$	R
CVLL_eedd	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{d}_L\gamma_\mu d_L)$	R
CVLL_eeee	$\frac{{}^{4}\!$	R
CVLL_eemumu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu e_L)(\bar{\mu}_L\gamma_\mu\mu_L)$	R
CVLL_eess	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^{\mu}e_L)(\bar{s}_L\gamma_{\mu}s_L)$	${ m R}$
CVLL_eetautau	$ \frac{{}^{4G_{F}}_{G}(\bar{e}_{L}\gamma^{\mu}e_{L})(\bar{\tau}_{L}\gamma_{\mu}\tau_{L})}{{}^{4G_{F}}_{\sqrt{2}}(\bar{e}_{L}\gamma^{\mu}e_{L})(\bar{u}_{L}\gamma_{\mu}u_{L})} \\ \frac{{}^{4G_{F}}_{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{c}_{L}\gamma_{\mu}c_{L})}{{}^{4G_{F}}_{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{d}_{L}\gamma_{\mu}d_{L})} $	R
CVLL_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu e_L)(\bar{u}_L\gamma_\mu u_L)$	R
CVLL_mumucc	$rac{4ar{G}_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{c}_L\gamma_\mu c_L)$	${ m R}$
CVLL_mumudd	$rac{4ar{G}_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{d}_L\gamma_\mu d_L)$	${ m R}$

WC name	Operator	Type
CVLL_mumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{\mu}_L\gamma_\mu\mu_L)$	R
CVLL_mumuss	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{s}_L\gamma_\mu s_L)$	$\mathbf{R}$
${\tt CVLL\_mumutautau}$	$\frac{4\check{G}_F^c}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{ au}_L\gamma_\mu au_L)$	$\mathbf{R}$
CVLL_mumuuu	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{u}_L\gamma_\mu u_L)$	R
CVLL_ssss	$rac{4ar{G}_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu s_L)$	R
CVLL_tautaucc	$rac{4ar{G}_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{c}_L\gamma_\mu c_L)$	R
CVLL_tautaudd	$rac{4 ar{G_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	$-rac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{ au}_L\gamma_\mu au_L)$	R
CVLL_tautauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L\gamma^\mu\tau_L)(\bar{u}_L\gamma_\mu u_L)$	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	$rac{4G_F}{\sqrt{2}}(ar{c}_L\gamma^\mu c_L)(ar{\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	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{e}_R\gamma_\mu e_R)$	R
CVLR_ddmumu	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{\mu}_R\gamma_\mu\mu_R)$	R
CVLR_ddtautau	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{ au}_R\gamma_\mu au_R)$	R
CVLR_eecc	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{c}_R\gamma_\mu c_R)$	R
CVLR_eedd	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{d}_R\gamma_\mu d_R)$	R
CVLR_eeee	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{e}_R\gamma_\mu e_R)$	R
CVLR_eemumu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^{\mu}e_L)(\bar{\mu}_R\gamma_{\mu}\mu_R)$	R
CVLR_eess	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{s}_R\gamma_\mu s_R)$	R
CVLR_eetautau	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{ au}_R\gamma_\mu au_R)$	R
CVLR_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^{\mu}e_L)(\bar{u}_R\gamma_{\mu}u_R)$	R
CVLR_emumue	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu\mu_L)(\bar{\mu}_R\gamma_\mu e_R)$	С
CVLR_etautaue	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L\gamma^\mu au_L)(\bar{ au}_R\gamma_\mu e_R)$	$^{\mathrm{C}}$
CVLR_mumucc	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{c}_R\gamma_\mu c_R)$	R
CVLR_mumudd	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(d_R\gamma_\mu d_R)$	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	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	R
CVLR_mumuss	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{s}_R\gamma_\mu s_R)$	R
CVLR_mumutautau	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{ au}_R\gamma_\mu au_R)$	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	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu au_L)(\bar{ au}_R\gamma_\mu\mu_R)$	С
CVLR_ssee	$\begin{array}{c} \frac{\sqrt{2}}{4G_{F}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{e}_{R}\gamma_{\mu}e_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{\mu}_{R}\gamma_{\mu}\mu_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{s}_{R}\gamma_{\mu}s_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{\tau}_{R}\gamma_{\mu}r_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{u}_{R}\gamma_{\mu}u_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\mu_{L})(\bar{\tau}_{R}\gamma_{\mu}\mu_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{\mu}_{L}\gamma^{\mu}\tau_{L})(\bar{\tau}_{R}\gamma_{\mu}\mu_{R}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}s_{L})(\bar{e}_{R}\gamma_{\mu}e_{R}) \end{array}$	R

WC name	Operator	Type
CVLR_ssmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^{\mu}s_L)(\bar{\mu}_R\gamma_{\mu}\mu_R)$	R
CVLR_sstautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu s_L)(\bar{\tau}_R\gamma_\mu \tau_R)$	R
CVLR_tautaucc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{\tau}_L\gamma^\mu\tau_L)(\bar{c}_R\gamma_\mu c_R)$	R
CVLR_tautaudd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{ au}_L\gamma^\mu au_L)(\bar{d}_R\gamma_\mu d_R)$	R
CVLR_tautauee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{\tau}_L\gamma^\mu\tau_L)(\bar{e}_R\gamma_\mu e_R)$	R
CVLR_tautaumumu	$rac{4ar{G}_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{\mu}_R\gamma_\mu\mu_R)$	R
CVLR_tautauss	$\frac{4G_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{s}_R\gamma_\mu s_R)$	R
CVLR_tautautautau	$-rac{4ar{G}_F}{\sqrt{2}}(ar{ au}_L\gamma^\mu au_L)(ar{ au}_R\gamma_\mu au_R)$	R
CVLR_tautauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_L\gamma^\mu\tau_L)(\bar{u}_R\gamma_\mu u_R)$	R
CVLR_uuee	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{e}_R\gamma_\mu e_R)$	R
CVLR_uumumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{\mu}_R\gamma_\mu\mu_R)$	R
CVLR_uutautau	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{\tau}_R\gamma_\mu \tau_R)$	R
CVRR_cccc	$\frac{4G_F}{\sqrt{2}}(\bar{c}_R\gamma^\mu c_R)(\bar{c}_R\gamma_\mu c_R)$	R
CVRR_dddd	$rac{4G_F}{\sqrt{2}}(ar{d}_R\gamma^\mu d_R)(ar{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)$	R
CVRR_dssd	$rac{4G_F}{\sqrt{2}}(ar{d}_R\gamma^\mu s_R)(ar{s}_R\gamma_\mu d_R)$	R
CVRR_eecc	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{c}_R\gamma_{\mu}c_R)$	R
CVRR_eedd	$rac{4G_F}{\sqrt{2}}(ar{e}_R\gamma^\mu e_R)(ar{d}_R\gamma_\mu d_R)$	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	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{\mu}_R\gamma_{\mu}\mu_R)$	R
CVRR_eess	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{s}_R\gamma_{\mu}s_R)$	R
CVRR_eetautau	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{\tau}_R\gamma_{\mu}\tau_R)$	R
CVRR_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^\mu e_R)(\bar{u}_R\gamma_\mu u_R)$	R
CVRR_mumucc	$rac{4G_F}{\sqrt{2}}(ar{\mu}_R\gamma^\mu\mu_R)(ar{c}_R\gamma_\mu c_R)$	R
CVRR_mumudd	$rac{4G_F}{\sqrt{2}}(ar{\mu}_R\gamma^\mu\mu_R)(ar{d}_R\gamma_\mu d_R)$	R
CVRR_mumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_R\gamma^\mu\mu_R)(\bar{\mu}_R\gamma_\mu\mu_R)$	R
CVRR_mumuss	$rac{4G_F}{\sqrt{2}}(ar{\mu}_R\gamma^\mu\mu_R)(ar{s}_R\gamma_\mu s_R)$	R
CVRR_mumutautau	$rac{4G_F}{\sqrt{2}}(ar{\mu}_R\gamma^\mu\mu_R)(ar{ au}_R\gamma_\mu au_R)$	R
CVRR_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_R\gamma^\mu\mu_R)(\bar{u}_R\gamma_\mu u_R)$	R
CVRR_ssss	$\frac{4G_F}{\sqrt{2}}(ar{s}_R\gamma^\mu s_R)(ar{s}_R\gamma_\mu s_R)$	R
CVRR_tautaucc	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_R\gamma^\mu\tau_R)(\bar{c}_R\gamma_\mu c_R)$	R
CVRR_tautaudd	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_R\gamma^\mu\tau_R)(d_R\gamma_\mu d_R)$	R
CVRR_tautauss	$\frac{\sqrt{4G_F}}{\sqrt{2}}(\bar{\tau}_R \gamma^\mu \tau_R)(\bar{d}_R \gamma_\mu d_R)$ $\frac{4G_F}{\sqrt{2}}(\bar{\tau}_R \gamma^\mu \tau_R)(\bar{s}_R \gamma_\mu s_R)$ $\frac{4G_F}{\sqrt{2}}(\bar{\tau}_R \gamma^\mu \tau_R)(\bar{\tau}_R \gamma_\mu \tau_R)$ $\frac{4G_F}{\sqrt{2}}(\bar{\tau}_R \gamma^\mu \tau_R)(\bar{\tau}_R \gamma_\mu \tau_R)$	R
CVRR_tautautautau	$-\frac{4G_F}{\sqrt{2}}(\bar{ au}_R\gamma^\mu au_R)(\bar{ au}_R\gamma_\mu au_R)$	R
CVRK_tautauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\tau}_R\gamma^\mu\tau_R)(\bar{u}_R\gamma_\mu u_R)$	R
CVRR_uccu	$\frac{\sqrt{2}}{\sqrt{2}} (\bar{\tau}_R \gamma^\mu \tau_R) (\bar{u}_R \gamma_\mu u_R) \\ \frac{4G_F}{\sqrt{2}} (\bar{u}_R \gamma^\mu c_R) (\bar{c}_R \gamma_\mu u_R) \\ \frac{4G_F}{\sqrt{2}} (\bar{u}_R \gamma^\mu u_R) (\bar{c}_R \gamma_\mu c_R)$	R
CVRR_uucc	$\frac{4G_F}{\sqrt{2}}(\bar{u}_R\gamma^\mu u_R)(\bar{c}_R\gamma_\mu c_R)$	R

WC name	Operator	Type
CVRR_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_R\gamma^\mu u_R)(\bar{u}_R\gamma_\mu u_R)$	R

#### mue

WC name	Operator	Type
Cgamma_mue	$ar{e}_L \sigma^{\mu u} \mu_R  F_{\mu u}$	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	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{ au}_L \gamma_\mu  au_L)$	$^{\mathrm{C}}$
CVLL_mueuu	$(ar{e}_L \gamma^\mu \mu_L) (ar{u}_L \gamma_\mu u_L)$	$^{\mathrm{C}}$
CVLL_muecc	$(ar{e}_L \gamma^\mu \mu_L) (ar{c}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
CVLL_muedd	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu d_L)$	$^{\mathrm{C}}$
CVLL_muess	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_L \gamma_\mu s_L)$	$^{\mathrm{C}}$
CVRR_eemue	$(ar{e}_R \gamma^\mu e_R)(ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVRR_muemumu	$(ar{e}_R\gamma^\mu\mu_R)(ar{\mu}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
CVRR_muetautau	$(ar{e}_R\gamma^\mu\mu_R)(ar{ au}_R\gamma_\mu au_R)$	$^{\mathrm{C}}$
CVRR_mueuu	$(ar{e}_R\gamma^\mu\mu_R)(ar{u}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
CVRR_muecc	$(ar{e}_R\gamma^\mu\mu_R)(ar{c}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
CVRR_muedd	$(ar{e}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
CVRR_muess	$(ar{e}_R\gamma^\mu\mu_R)(ar{s}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
CVLR_eemue	$(ar{e}_L \gamma^\mu e_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_mueee	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
CVLR_muemumu	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_muetautau	$(ar{e}_L \gamma^\mu \mu_L) (ar{ au}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
CVLR_tauemutau	$(ar{e}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_mumumue	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_taumuetau	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu e_R)$	$\mathbf{C}$
CVLR_tautaumue	$(ar{ au}_L \gamma^\mu  au_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
CVLR_mueuu	$(ar{e}_L \gamma^\mu \mu_L) (ar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
CVLR_muecc	$(ar{e}_L \gamma^\mu \mu_L) (ar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
CVLR_muedd	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
CVLR_muess	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
CVLR_uumue	$(ar{u}_L \gamma^\mu u_L)(ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
CVLR_ccmue	$(\bar{c}_L \gamma^\mu c_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_ddmue	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_ssmue	$(ar{s}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
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	$(ar{\mu}_L e_R)(ar{u}_R u_L)$	$^{\mathrm{C}}$
CSRL_emucc	$(ar{\mu}_L e_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$
CSRL_muedd	$(ar{e}_L\mu_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$

WC name	Operator	Type
CSRL_muess	$(ar{e}_L\mu_R)(ar{s}_Rs_L)$	C
CSRL_emudd	$(ar{\mu}_L e_R)(ar{d}_R d_L)$	$\mathbf{C}$
CSRL_emuss	$(ar{\mu}_L e_R)(ar{s}_R s_L)$	$^{\mathrm{C}}$
CSRR_eemue	$(ar{e}_L e_R)(ar{e}_L \mu_R)$	$^{\mathrm{C}}$
CSRR_eeemu	$(ar{e}_L e_R)(ar{\mu}_L e_R)$	$^{\mathrm{C}}$
CSRR_muemumu	$(ar{e}_L\mu_R)(ar{\mu}_L\mu_R)$	$^{\mathrm{C}}$
CSRR_muetautau	$(ar{e}_L\mu_R)(ar{ au}_L au_R)$	$\mathbf{C}$
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	$(ar{\mu}_L e_R)(ar{ au}_L  au_R)$	$\mathbf{C}$
CSRR_taumuetau	$(ar{\mu}_L au_R)(ar{ au}_Le_R)$	$\mathbf{C}$
CSRR_mueuu	$(ar{e}_L\mu_R)(ar{u}_Lu_R)$	$\mathbf{C}$
CSRR_muecc	$(ar{e}_L\mu_R)(ar{c}_Lc_R)$	$\mathbf{C}$
CSRR_emuuu	$(ar{\mu}_L e_R)(ar{u}_L u_R)$	$^{\mathrm{C}}$
CSRR_emucc	$(ar{\mu}_L e_R)(ar{c}_L c_R)$	$\mathbf{C}$
CTRR_mueuu	$(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	$^{\mathrm{C}}$
CTRR_muecc	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{c}_L\sigma_{\mu u}c_R)$	С
CTRR_emuuu	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	С
CTRR_emucc	$(\bar{\mu}_L \sigma^{\mu\nu} e_{\bar{R}})(\bar{c}_L \sigma_{\mu\nu} c_R)$	$\mathbf{C}$
CSRR_muedd	$(ar{e}_L\mu_R)(ar{d}_Ld_R)$	$\mathbf{C}$
CSRR_muess	$(ar{e}_L\mu_R)(ar{s}_Ls_R)$	$^{\mathrm{C}}$
CSRR_emudd	$(ar{\mu}_L e_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
CSRR_emuss	$(ar{\mu}_L e_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
CTRR_muedd	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
CTRR_muess	$(\bar{e}_L \sigma^{\mu  u} \mu_R) (\bar{s}_L \sigma_{\mu  u} s_R)$	$^{\mathrm{C}}$
CTRR_emudd	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} d_R)$	$\mathbf{C}$
CTRR_emuss	$(\bar{\mu}_L \sigma^{\mu  u} e_R)(\bar{s}_L \sigma_{\mu  u} s_R)$	С

# mutau

WC name	Operator	Type
Cgamma_taumu	$ar{\mu}_L \sigma^{\mu u}  au_R  F_{\mu u}$	C
Cgamma_mutau	$ar{ au}_L \sigma^{\mu u} \mu_R  F_{\mu u}$	$\mathbf{C}$
CVLL_eetaumu	$(ar{e}_L \gamma^\mu e_L)(\dot{ar{\mu}}_L \gamma_\mu  au_L)$	$\mathbf{C}$
CVLL_mumutaumu	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_L \dot{\gamma}_\mu  au_L)$	$\mathbf{C}$
CVLL_taumutautau	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_L \gamma_\mu  au_L)$	$\mathbf{C}$
CVLL_taumuuu	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{u}_L \gamma_\mu u_L)$	$\mathbf{C}$
CVLL_taumucc	$(ar{\mu}_L \gamma^\mu  au_L) (ar{c}_L \gamma_\mu c_L)$	$\mathbf{C}$
CVLL_taumudd	$(ar{\mu}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{C}$
CVLL_taumuss	$(ar{\mu}_L \gamma^\mu  au_L)(ar{s}_L \gamma_\mu s_L)$	$\mathbf{C}$
CVRR_eetaumu	$(\bar{e}_R \gamma^\mu e_R)(\bar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
CVRR_mumutaumu	$(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$

WC name	Operator	Type
CVRR_taumutautau	$(\bar{\mu}_R \gamma^\mu \tau_R)(\bar{\tau}_R \gamma_\mu \tau_R)$	C
CVRR_taumuuu	$(\bar{\mu}_R \gamma^\mu  au_R)(\bar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
CVRR_taumucc	$(ar{\mu}_R \gamma^\mu  au_R) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
CVRR_taumudd	$(ar{\mu}_R \gamma^\mu  au_R) (d_R \gamma_\mu d_R)$	$\mathbf{C}$
CVRR_taumuss	$(\bar{\mu}_R \gamma^\mu  au_R) (\bar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
CVLR_eetaumu	$(ar{e}_L \gamma^\mu e_L) (ar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
CVLR_mueetau	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\tau}_R \gamma_\mu e_R)$	$\mathbf{C}$
CVLR_taueemu	$(\bar{e}_L \gamma^\mu  au_L)(\bar{\mu}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
CVLR_mumutaumu	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	$^{\mathrm{C}}$
CVLR_taumuee	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{e}_R \gamma_\mu e_R)$	$\mathbf{C}$
CVLR_taumumumu	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
CVLR_taumutautau	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
CVLR_tautautaumu	$(\bar{ au}_L \gamma^\mu  au_L)(\bar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
CVLR_taumuuu	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
CVLR_taumucc	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
CVLR_taumudd	$(ar{\mu}_L \gamma^\mu  au_L)(d_R \gamma_\mu d_R)$	$\mathbf{C}$
CVLR_taumuss	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
CVLR_uutaumu	$(\bar{u}_L \gamma^\mu u_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
CVLR_cctaumu	$(\bar{c}_L \gamma^\mu c_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
CVLR_ddtaumu	$(d_L \gamma^\mu d_L)(\bar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
CVLR_sstaumu	$(\bar{s}_L \gamma^\mu s_L)(\bar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
CSRL_taumuuu	$(\bar{\mu}_L  au_R)(\bar{u}_R u_L)$	$\mathbf{C}$
CSRL_taumucc	$(ar{\mu}_L au_R)(ar{c}_Rc_L)$	$\mathbf{C}$
CSRL_mutauuu	$(ar{ au}_L \mu_R)(ar{u}_R u_L)$	$^{\mathrm{C}}$
CSRL_mutaucc	$(ar{ au}_L\mu_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
CSRL_taumudd	$(ar{\mu}_L au_R)(ar{d}_Rd_L)$	$\mathbf{C}$
CSRL_taumuss	$(ar{\mu}_L au_R)(ar{s}_Rs_L)$	$\mathbf{C}$
CSRL_mutaudd	$(ar{ au}_L \mu_R)(ar{d}_R d_L)$	$^{\mathrm{C}}$
CSRL_mutauss	$(ar{ au}_L \mu_R)(ar{s}_R s_L)$	$^{\mathrm{C}}$
CSRR_eetaumu	$(ar{e}_L e_R)(ar{\mu}_L  au_R)$	$^{\mathrm{C}}$
CSRR_eemutau	$(ar{e}_L e_R)(ar{ au}_L \mu_R)$	$\mathbf{C}$
CSRR_mueetau	$(ar{e}_L\mu_R)(ar{ au}_Le_R)$	$\mathbf{C}$
CSRR_taueemu	$(ar{e}_L au_R)(ar{\mu}_Le_R)$	$\mathbf{C}$
CSRR_mumutaumu	$(ar{\mu}_L\mu_R)(ar{\mu}_L au_R)$	$\mathbf{C}$
CSRR_mumumutau	$(ar{\mu}_L\mu_R)(ar{ au}_L\mu_R)$	$\mathbf{C}$
CSRR_taumutautau	$(ar{\mu}_L au_R)(ar{ au}_L au_R)$	$\mathbf{C}$
CSRR_mutautautau	$(ar{ au}_L\mu_R)(ar{ au}_L au_R)$	$^{\mathrm{C}}$
CSRR_taumuuu	$(ar{\mu}_L au_R)(ar{u}_Lu_R)$	$\mathbf{C}$
CSRR_taumucc	$(ar{\mu}_L au_R)(ar{c}_Lc_R)$	$\mathbf{C}$
CSRR_mutauuu	$(ar{ au}_L \mu_R)(ar{u}_L u_R)$	C
CSRR_mutaucc	$(ar{ au}_L\mu_R)(ar{c}_Lc_R)$	$\mathbf{C}$
CTRR_taumuuu	$(\bar{\mu}_L \sigma^{\mu\nu} \tau_R) (\bar{u}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
CTRR_taumucc	$(\bar{\mu}_L \sigma^{\mu\nu}  au_R) (\bar{c}_L \sigma_{\mu\nu} c_R)$	$\mathbf{C}$
CTRR_mutauuu	$(\bar{ au}_L \sigma^{\mu u} \mu_R)(\bar{u}_L \sigma_{\mu u} u_R)$	$\mathbf{C}$

WC name	Operator	Type
CTRR_mutaucc	$(ar au_L \sigma^{\mu u} \mu_R) (ar c_L \sigma_{\mu u} c_R)$	$\mathbf{C}$
CSRR_taumudd	$(ar{\mu}_L au_R)(ar{d}_Ld_R)$	$\mathbf{C}$
CSRR_taumuss	$(ar{\mu}_L au_R)(ar{s}_Ls_R)$	С
CSRR_mutaudd	$(ar{ au}_L \mu_R)(ar{d}_L d_R)$	$\mathbf{C}$
CSRR_mutauss	$(ar{ au}_L\mu_R)(ar{s}_Ls_R)$	С
CTRR_taumudd	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{d}_L \sigma_{\mu  u} d_R)$	$\mathbf{C}$
CTRR_taumuss	$(ar{\mu}_L\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
CTRR_mutaudd	$(ar{ au}_L \sigma^{\mu u} \mu_R) (ar{d}_L \sigma_{\mu u} d_R)$	$\mathbf{C}$
CTRR_mutauss	$(\bar{ au}_L \sigma^{\mu u} \mu_R)(\bar{s}_L \sigma_{\mu u} s_R)$	C

#### taue

WC name	Operator	Type
Cgamma_taue	$\bar{e}_L \sigma^{\mu u}  au_R F_{\mu u}$	С
Cgamma_etau	$ar{ au}_L \sigma^{\mu u} e_R  F_{\mu u}$	$^{\mathrm{C}}$
CVLL_eetaue	$(ar{e}_L\gamma^\mu e_L)(ar{e}_L\gamma_\mu au_L)$	$\mathbf{C}$
CVLL_muetaumu	$(ar{e}_L \gamma^\mu \mu_L) (ar{\mu}_L \gamma_\mu  au_L)$	$\mathbf{C}$
CVLL_tauetautau	$(ar{e}_L \gamma^\mu  au_L) (ar{ au}_L \gamma_\mu  au_L)$	$\mathbf{C}$
CVLL_taueuu	$(\bar{e}_L \gamma^\mu  au_L)(\bar{u}_L \gamma_\mu u_L)$	$\mathbf{C}$
CVLL_tauecc	$(ar{e}_L \gamma^\mu  au_L) (ar{c}_L \gamma_\mu c_L)$	$\mathbf{C}$
CVLL_tauedd	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{C}$
CVLL_tauess	$(\bar{e}_L \gamma^\mu  au_L)(\bar{s}_L \gamma_\mu s_L)$	$\mathbf{C}$
CVRR_eetaue	$(ar{e}_R\gamma^\mu e_R)(ar{e}_R\gamma_\mu au_R)$	$\mathbf{C}$
CVRR_muetaumu	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
CVRR_tauetautau	$(\bar{e}_R \gamma^\mu  au_R)(\bar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
CVRR_taueuu	$(\bar{e}_R \gamma^\mu  au_R)(\bar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
CVRR_tauecc	$(ar{e}_R \gamma^\mu  au_R) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
CVRR_tauedd	$(ar{e}_R \gamma^\mu  au_R) (d_R \gamma_\mu d_R)$	$\mathbf{C}$
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	$(ar{e}_L \gamma^\mu  au_L) (ar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
CVLR_tauemumu	$(\bar{e}_L \gamma^\mu  au_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_tauetautau	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{\tau}_R \gamma_\mu \tau_R)$	$^{\mathrm{C}}$
CVLR_mumutaue	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \tau_R)$	$^{\mathrm{C}}$
CVLR_taumumue	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_tautautaue	$(\bar{ au}_L \gamma^\mu  au_L)(\bar{e}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
CVLR_taueuu	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
CVLR_tauecc	$(ar{e}_L \gamma^\mu  au_L) (ar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
CVLR_tauedd	$(\bar{e}_L \gamma^\mu  au_L)(d_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
CVLR_tauess	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{s}_R \gamma_\mu s_R)$	С
CVLR_uutaue	$(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu \tau_R)$	С

WC name	Operator	Type
CVLR_cctaue	$(\bar{c}_L \gamma^\mu c_L)(\bar{e}_R \gamma_\mu \tau_R)$	C
CVLR_ddtaue	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
CVLR_sstaue	$(\bar{s}_L \gamma^\mu s_L)(\bar{e}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
CSRL_taueuu	$(ar{e}_L au_R)(ar{u}_Ru_L)$	$^{\mathrm{C}}$
CSRL_tauecc	$(ar{e}_L au_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
CSRL_etauuu	$(ar{ au}_L e_R)(ar{u}_R u_L)$	$^{\mathrm{C}}$
CSRL_etaucc	$(ar{ au}_L e_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$
CSRL_tauedd	$(ar{e}_L au_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$
CSRL_tauess	$(ar{e}_L au_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
CSRL_etaudd	$(ar{ au}_L e_R)(ar{d}_R d_L)$	$^{\mathrm{C}}$
CSRL_etauss	$(ar{ au}_L e_R)(ar{s}_R s_L)$	$^{\mathrm{C}}$
CSRR_eetaue	$(ar{e}_L e_R)(ar{e}_L  au_R)$	$^{\mathrm{C}}$
CSRR_eeetau	$(ar{e}_L e_R)(ar{ au}_L e_R)$	$^{\mathrm{C}}$
CSRR_muetaumu	$(ar{e}_L\mu_R)(ar{\mu}_L au_R)$	$^{\mathrm{C}}$
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	$(ar{\mu}_L \mu_R)(ar{ au}_L e_R)$	$\mathbf{C}$
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	$(ar{ au}_L e_R)(ar{u}_L u_R)$	$\mathbf{C}$
CSRR_etaucc	$(ar{ au}_L e_R)(ar{c}_L c_R)$	$\mathbf{C}$
CTRR_taueuu	$(\bar{e}_L \sigma^{\mu\nu} \tau_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
CTRR_tauecc	$(\bar{e}_L \sigma^{\mu\nu} \tau_R)(\bar{c}_L \sigma_{\mu\nu} c_R)$	$\mathbf{C}$
CTRR_etauuu	$(\bar{\tau}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
CTRR_etaucc	$(\bar{ au}_L \sigma^{\mu  u} e_{ar{R}}) (\bar{c}_L \sigma_{\mu  u} c_R)$	$\mathbf{C}$
CSRR_tauedd	$(ar{e}_L au_R)(d_Ld_R)$	$\mathbf{C}$
CSRR_tauess	$(ar{e}_L au_R)(ar{s}_Ls_R)$	$\mathbf{C}$
CSRR_etaudd	$(ar{ au}_L e_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
CSRR_etauss	$(ar{ au}_L e_R)(ar{s}_L s_R)$	$\mathbf{C}$
CTRR_tauedd	$(ar{e}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
CTRR_tauess	$(ar{e}_L\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
CTRR_etaudd	$(ar{ au}_L \sigma^{\mu u} e_R) (ar{d}_L \sigma_{\mu u} d_R)$	$^{\mathrm{C}}$
CTRR_etauss	$(\bar{\tau}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$	$\mathbf{C}$

#### ${\tt nunumue}$

WC name	Operator	Type
CVLL_nuenuemue	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	С
CVLL_numunueemu	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_numunuemue	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$

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

#### nunumutau

WC name	Operator	Type
CVLL_nuenuetaumu	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{\mu}_{L}\gamma_{\mu} au_{L})$	C
CVLL_numunuemuta	au $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
CVLL_numunuetaum	nu $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_numunumutau	$\min(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
	$ au(ar u_{eL}\gamma^\mu u_{ au L})(ar au_L\gamma_\mu\mu_L)$	$^{\mathrm{C}}$
CVLL_nutaunuetau	$\min(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_nutaunumumu	ita $ar{m{v}}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
	$\min(ar{m{v}}_{\mu L}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_nutaunutaut	$ au(ar{m}_L\gamma^\mu u_{ au L})(ar{\mu}_L\gamma_\mu au_L)$	$^{\mathrm{C}}$
CVLR_nuenuetaumu	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
CVLR_numunuemuta	au $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
CVLR_numunuetaum	nu $(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$\mathbf{C}$
CVLR_numunumutau	$\min(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$\mathbf{C}$
	$ au(ar u_{eL}\gamma^\mu u_{ au L})(ar au_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
CVLR_nutaunuetau	$\min(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
CVLR_nutaunumumu	ita $ar{m{v}}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_R \gamma_{\mu} \mu_R)$	$\mathbf{C}$
	$\min(ar{m{v}}_{\mu L}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
CVLR_nutaunutaut	$ au(ar{p}_{\mu_L}\gamma^{\mu} u_{ au_L})(ar{\mu}_R\gamma_{\mu} au_R)$	C

#### nunutaue

WC name	Operator	Type
CVLL_nuenuetaue	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{e}_{L}\gamma_{\mu} au_{L})$	С
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	ie $(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_L \gamma_{\mu}  au_L)$	$^{\mathrm{C}}$
CVLL_nutaunueeta	au $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_nutaunuetau	ie $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_nutaunumuet	$ au(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_nutaunumuta	$\mathrm{u}$ e $(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLL_nutaunutaut	$ au\!(ar{m{e}}_{ au L}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
CVLR_nuenuetaue	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
CVLR_numunueetau	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
CVLR_numunuetaue	$e^{-(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu} au_{R})}$	$^{\mathrm{C}}$
CVLR_numunumutau	ie $(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_R \gamma_{\mu}  au_R)$	$^{\mathrm{C}}$
CVLR_nutaunueeta	au $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
CVLR_nutaunuetau	ie $(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
CVLR_nutaunumuet	$ au(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
	$\mathrm{u}$ e $(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
	$ au(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	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{c}_L\gamma_{\mu}c_L)$	R
CVLL_nuenuedd	$\frac{4\tilde{G}_{F}^{F}}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{L}\gamma_{\mu}d_{L})$	R
CVLL_nuenueee	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{eL})(ar{e}_L\gamma_\mu e_L)$	R
CVLL_nuenuemumu	$\frac{4\check{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{eL})(ar{\mu}_L\gamma_\mu\mu_L)$	R
CVLL_nuenuess	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{s}_L\gamma_{\mu}s_L)$	R
CVLL_nuenuetautau	$-\frac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{eL})(ar{ au}_L\gamma_\mu au_L)$	R
CVLL_nuenueuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{u}_L\gamma_{\mu}u_L)$	R
CVLL_nuenumucc	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{c}_L\gamma_{\mu}c_L)$	$\mathbf{C}$
CVLL_nuenumudd	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^\mu u_{\mu L})(\bar{d}_L\gamma_\mu d_L)$	$\mathbf{C}$
CVLL_nuenumuee	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{e}_L\gamma_{\mu}e_L)$	$\mathbf{C}$
${\tt CVLL\_nuenumumumu}$	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{\mu}_L\gamma_{\mu}\mu_L)$	$\mathbf{C}$
CVLL_nuenumuss	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{s}_L\gamma_{\mu}s_L)$	$\mathbf{C}$
CVLL_nuenumutauta	$u^{4\widetilde{G_F}}_{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	$\mathbf{C}$
CVLL_nuenumuuu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{u}_L\gamma_{\mu}u_L)$	$\mathbf{C}$
CVLL_nuenutaucc	$\frac{4\check{G}_F^c}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{c}_L\gamma_\mu c_L)$	$\mathbf{C}$
CVLL_nuenutaudd	$\frac{4\check{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{d}_L\gamma_\mu d_L)$	$\mathbf{C}$
CVLL_nuenutauee	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{e}_L\gamma_\mu e_L)$	$\mathbf{C}$

WC name	Operator	Туре
CVLL_nuenutaumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{\mu}_L\gamma_{\mu}\mu_L)$	C
CVLL_nuenutauss	$\frac{4\ddot{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{s}_L\gamma_\mu s_L)$	$\mathbf{C}$
CVLL_nuenutautaut	$\Delta \frac{\chi_F^2}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu  u_{ au L}) (ar{ au}_L \gamma_\mu  au_L)$	$\mathbf{C}$
CVLL_nuenutauuu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{u}_L\gamma_{\mu}u_L)$	$\mathbf{C}$
CVLL_numunumucc	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{c}_L\gamma_{\mu}c_L)$	${ m R}$
CVLL_numunumudd	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\mu L}) (\bar{d}_L \gamma_{\mu} d_L)$	R
CVLL_numunumuee	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(\bar{e}_L\gamma_{\mu}e_L)$	R
CVLL_numunumumumumumumumumumumumumumumumumum	4 CT	${ m R}$
CVLL_numunumuss	$\frac{4\overset{\leftarrow}{G_F}}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(\bar{s}_L\gamma_{\mu}s_L)$	R
CVLL_numunumutaut	$A_{\sqrt{2}}^{4\widetilde{G_F}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{ au}_L\gamma_{\mu} au_L)$	${ m R}$
CVLL_numunumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\mu L})(\bar{u}_L\gamma_{\mu}u_L)$	${ m R}$
CVLL_numunutaucc	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{c}_L\gamma_{\mu}c_L)$	$\mathbf{C}$
${\tt CVLL\_numunutaudd}$	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{d}_L\gamma_{\mu}d_L)$	$\mathbf{C}$
CVLL_numunutauee	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{e}_L\gamma_{\mu}e_L)$	$\mathbf{C}$
CVLL_numunutaumum	$m^{4\widetilde{G_F}}_{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu}\mu_{L})$	$\mathbf{C}$
CVLL_numunutauss	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(\bar{s}_L\gamma_{\mu}s_L)$	$\mathbf{C}$
CVLL_numunutautau	$\mathrm{t}^{4GF}_{MS}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	$\mathbf{C}$
CVLL_numunutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_L\gamma_{\mu}u_L)$	$\mathbf{C}$
	$\approx rac{4G_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{c}_L\gamma_\mu c_L)$	$\mathbf{R}$
CVLL_nutaunutaudd	$4 \frac{4 \widetilde{G}_F}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu  u_{ au L}) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{R}$
CVLL_nutaunutaue	$e^{rac{4G_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{e}_L\gamma_{\mu}e_L)}$	$\mathbf{R}$
CVLL_nutaunutaumu	$\lim_{N \to \infty} \frac{dG_F}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu  u_{ au L}) (ar{\mu}_L \gamma_\mu \mu_L)$	$\mathbf{R}$
CVLL_nutaunutauss	$s  rac{4 G_F}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu  u_{ au L}) (ar{s}_L \gamma_\mu s_L)$	$\mathbf{R}$
CVLL_nutaunutauta	$u_{\overline{\nu}}^{C}(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	$\mathbf{R}$
CVLL_nutaunutauuu	$1 \frac{4G_F}{\sqrt{2}} (\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L}) (\bar{u}_L \gamma_\mu u_L)$	$\mathbf{R}$
CVLR_nuenuecc	$rac{4ar{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{c}_R\gamma_{\mu}c_R)$	$\mathbf{R}$
CVLR_nuenuedd	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{eL})(ar{d}_R\gamma_\mu d_R)$	$\mathbf{R}$
CVLR_nuenueee	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{eL})(ar{e}_R\gamma_\mu e_R)$	$\mathbf{R}$
CVLR_nuenuemumu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{\mu}_R\gamma_{\mu}\mu_R)$	$\mathbf{R}$
CVLR_nuenuess	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{s}_R\gamma_{\mu}s_R)$	$\mathbf{R}$
CVLR_nuenuetautau	$1 \frac{4G_F}{\sqrt{2}} (\bar{ u}_{eL} \gamma^\mu  u_{eL}) (\bar{ au}_R \gamma_\mu  au_R)$	$\mathbf{R}$
CVLR_nuenueuu	$\frac{\frac{4\ddot{G}_{F}^{r}}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{u}_{R}\gamma_{\mu}u_{R})}{\frac{4G_{F}}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{c}_{R}\gamma_{\mu}c_{R})}$	$\mathbf{R}$
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	$\frac{4\widetilde{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_R\gamma_{\mu}d_R)$	$\mathbf{C}$
CVLR_nuenumuee	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{e}_R\gamma_{\mu}e_R)$	$\mathbf{C}$
CVLR_nuenumumumu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{\mu}_R\gamma_{\mu}\mu_R)}{\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{s}_R\gamma_{\mu}s_R)}$	$\mathbf{C}$
CVLR_nuenumuss	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^\mu u_{\mu L})(\bar{s}_R\gamma_\mu s_R)$	$\mathbf{C}$

WC name	Operator	Type
CVLR_nuenumutauta	$\mathrm{au}_{\sqrt{2}}^{4G_F}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu} au_{R})$	С
CVLR_nuenumuuu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{u}_R\gamma_{\mu}u_R)$	$\mathbf{C}$
CVLR_nuenutaucc	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{c}_R\gamma_{\mu}c_R)$	$\mathbf{C}$
CVLR_nuenutaudd	$\frac{4 \breve{G}_F}{\sqrt{2}} (\bar{ u}_{eL} \gamma^\mu  u_{ au L}) (\bar{d}_R \gamma_\mu d_R)$	$\mathbf{C}$
CVLR_nuenutauee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{e}_R\gamma_{\mu}e_R)$	$\mathbf{C}$
CVLR_nuenutaumumu	$1 rac{4 \widetilde{G_F}}{\sqrt{2}} (ar{ u}_{eL} \gamma^\mu  u_{ au L}) (ar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
CVLR_nuenutauss	$\frac{4 \breve{G}_F}{\sqrt{2}} (\bar{ u}_{eL} \gamma^\mu  u_{ au L}) (\bar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
CVLR_nuenutautaut	$ au_{\sqrt{2}}^{AG_F^c} (ar{ u}_{eL} \gamma^\mu  u_{ au L}) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
CVLR_nuenutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R)$	$\mathbf{C}$
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	$\frac{4\ddot{G}_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{d}_R\gamma_\mu d_R)$	R
CVLR_numunumuee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^\mu  u_{\mu L})(\bar{e}_R\gamma_\mu e_R)$	R
CVLR_numunumumumumumumumumumumumumumumumumum	i $rac{4 ar{G_F}}{\sqrt{2}} (ar{ u}_{\mu L} \gamma^\mu  u_{\mu L}) (ar{\mu}_R \gamma_\mu \mu_R)$	R
CVLR_numunumuss	$\frac{4G_F^{\Gamma}}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{s}_R\gamma_{\mu}s_R)$	R
CVLR_numunumutaut	ta $rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{ au}_R\gamma_\mu au_R)$	R
CVLR_numunumuuu	$\frac{4\check{G}_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{\mu L})(ar{u}_R\gamma_\mu u_R)$	R
CVLR_numunutaucc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{\tau L})(\bar{c}_R\gamma_{\mu}c_R)$	$^{\mathrm{C}}$
CVLR_numunutaudd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{d}_R\gamma_{\mu}d_R)$	$^{\mathrm{C}}$
CVLR_numunutauee	$\frac{4\check{G}_{F}}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{e}_{R}\gamma_{\mu}e_{R})$	$\mathbf{C}$
CVLR_numunutaumur	$\minrac{4G_F}{\sqrt{2}}(ar u_{\mu L}\gamma^\mu u_{ au L})(ar\mu_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
CVLR_numunutauss	$rac{4reve{G_F}}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{s}_R\gamma_{\mu}s_R)$	$^{\mathrm{C}}$
CVLR_numunutautau	itan $(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
CVLR_numunutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
CVLR_nutaunutauco	$\simeq rac{4 \widetilde{G_F}}{\sqrt{2}} (ar{ u}_{ au L} \gamma^\mu  u_{ au L}) (ar{c}_R \gamma_\mu c_R)$	R
CVLR_nutaunutaudo	i $rac{4ar{G}_{F}}{\sqrt{2}}(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{d}_{R}\gamma_{\mu}d_{R})$	R
CVLR_nutaunutaue	$=rac{4\overset{\sim}{G_{T}}}{\sqrt{2}}(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu}e_{R})$	R
CVLR_nutaunutaum	$\lim_{N \to \infty} \frac{\langle \hat{Q}_F^2 \rangle}{\sqrt{2}} (\bar{ u}_{\tau L} \gamma^\mu  u_{\tau L}) (\bar{\mu}_R \gamma_\mu \mu_R)$	${ m R}$
CVLR_nutaunutauss	$=rac{4Q_F^2}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{s}_R\gamma_\mu s_R)$	$\mathbf{R}$
	au $(ar{ar{ au}}_{L})$ $(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu} au_{R})$	$\mathbf{R}$
CVLR_nutaunutauu	i $\frac{4\overset{ m GF}{\sqrt{2}}}{\sqrt{2}}(ar u_{ au L}\gamma^\mu u_{ au L})(ar u_R\gamma_\mu u_R)$	${ m R}$