Basis flavio (EFT WET-3)

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	$(\bar{d}_L \gamma^\mu s_L)(\bar{d}_L \gamma_\mu s_L)$	C
CVRR_sdsd	$(ar{d}_R \gamma^\mu s_R) (ar{d}_R \gamma_\mu s_R)$	\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	$(ar{d}_R\sigma^{\mu u}s_L)(ar{d}_R\sigma_{\mu u}s_L)$	$^{\mathrm{C}}$
CTRR_sdsd	$(ar{d}_L\sigma^{\mu u}s_R)(ar{d}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
CVLR_sdsd	$(ar{d}_L\gamma^\mu s_L)(ar{d}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
CSLR_sdsd	$(ar{d}_R s_L)(ar{d}_L s_R)$	$^{\mathrm{C}}$

sd

WC name	Operator	Type
C9_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{e}\gamma_{\mu}e)$	\overline{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)$	\mathbf{C}
C10_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\gamma_5 e)$	\mathbf{C}
C10p_sdee	$rac{4 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 e)$	\mathbf{C}
CS_sdee	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e}e)$	\mathbf{C}
CSp_sdee	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{e}e)$	\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	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{e}\gamma_5e)$	\mathbf{C}
C9_sdmumu	$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{\mu}\gamma_{\mu}\mu)$	\mathbf{C}
C9p_sdmumu	$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}\mu)$	\mathbf{C}
C10_sdmumu	$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{\mu}\gamma_{\mu}\gamma_{5}\mu)$	\mathbf{C}
C10p_sdmumu	$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}\mu)$	\mathbf{C}
CS_sdmumu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}m_s(ar{d}_L s_R)(ar{\mu}\mu)$	\mathbf{C}
CSp_sdmumu	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}m_s(ar{d}_R s_L)(ar{\mu}\mu)$	\mathbf{C}
CP_sdmumu	$\frac{4 \tilde{G}_F}{\sqrt{2}} V_{ts} V_{td}^* \frac{e^2}{16\pi^2} m_s(\bar{d}_L s_R) (\bar{\mu} \gamma_5 \mu)$	\mathbf{C}

WC name	Operator	Type
CPp_sdmumu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{\mu}\gamma_5 \mu)$	С
C7_sd	$\frac{4\widetilde{G_F}}{\sqrt{2}}V_{ts}V_{td}^*\frac{e}{16\pi^2}m_s(\bar{d}_L\sigma^{\mu\nu}s_R)F_{\mu\nu}$	\mathbf{C}
C7p_sd	$\frac{4G_F^2}{\sqrt{2}}V_{ts}V_{td}^*\frac{e}{16\pi^2}m_s(\bar{d}_R\sigma^{\mu\nu}s_L)F_{\mu\nu}$	\mathbf{C}
C8_sd	$\frac{4G_F}{G_F}V_{to}V_{to}^*\frac{g_s}{G_F}m_o(\bar{d}_I\sigma^{\mu\nu}T^as_P)G^a$	\mathbf{C}
C8p_sd	$\frac{\sqrt{2}}{\sqrt{2}}V_{ts}V_{td}^* \frac{g_s}{16\pi^2}m_s(\bar{d}_R\sigma^{\mu\nu}T^as_L)G_{\mu\nu}^a$	\mathbf{C}
CVLL_sdss	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(d_L\gamma^\mu s_L)(\bar{s}_L\gamma_\mu s_L)$	\mathbf{C}
CVLR_sdss	$\frac{4\tilde{G_F}}{\tilde{S_C^2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{s}_R\gamma_\mu s_R)$	\mathbf{C}
CVRL_sdss	$\frac{4\overset{\leftarrow}{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{s}_L\gamma_\mu s_L)$	\mathbf{C}
CVRR_sdss	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{s}_R\gamma_\mu s_R)$	\mathbf{C}
CSLL_sdss	$\frac{4\ddot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{s}_Rs_L)$	\mathbf{C}
CSLR_sdss	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Rs_L)(ar{s}_Rs_L) \ rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Rs_L)(ar{s}_Ls_R)$	\mathbf{C}
CSRL_sdss	$\frac{4\tilde{G}_F^2}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{s}_Rs_L)$	\mathbf{C}
CSRR_sdss	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{s}_Ls_R)$	\mathbf{C}
CTLL_sdss	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\sigma^{\mu\nu}s_L)(\bar{s}_R\sigma_{\mu\nu}s_L)$	\mathbf{C}
CTRR_sdss	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} V_{ts} V_{td}^* (ar{d}_L \sigma^{\mu u} s_R) (ar{s}_L \sigma_{\mu u} s_R)$	\mathbf{C}
CVLL_sddd	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(d_L\gamma^\mu s_L)(d_L\gamma_\mu d_L)$	\mathbf{C}
CVLR_sddd	$\frac{4\tilde{G}_F^2}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{d}_R\gamma_\mu d_R)$	\mathbf{C}
CVRL_sddd	$rac{4reve{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	$rac{4ar{G}_F^c}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R\gamma^\mu s_R)(ar{d}_R\gamma_\mu d_R)$	\mathbf{C}
CSLL_sddd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{d}_Rd_L)$	\mathbf{C}
CSLR_sddd	$\frac{\sqrt{2}}{\sqrt{2}}V_{ts}V_{td}^{*}(ar{d}_Rs_L)(ar{d}_Ld_R)$	\mathbf{C}
CSRL_sddd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{d}_Rd_L)$	\mathbf{C}
CSRR_sddd	$rac{4ar{G}_F^c}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_Ls_R)(ar{d}_Ld_R)$	$^{\mathrm{C}}$
CTLL_sddd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\sigma^{\mu\nu}s_L)(\bar{d}_R\sigma_{\mu\nu}d_L)$	\mathbf{C}
CTRR_sddd	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\sigma^{\mu\nu}s_R)(\bar{d}_L\sigma_{\mu\nu}d_R)$	$^{\mathrm{C}}$
CVLL_sduu	$\frac{\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^{\mu}s_L)(\bar{u}_L\gamma_{\mu}u_L)}{\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^{\mu}s_L)(\bar{u}_R\gamma_{\mu}u_R)}$	\mathbf{C}
CVLR_sduu	$\frac{4\tilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L\gamma^\mu s_L)(\bar{u}_R\gamma_\mu u_R)$	\mathbf{C}
CVRL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{u}_L\gamma_\mu u_L)$	\mathbf{C}
CVRR_sduu	$\frac{4\ddot{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^\mu s_R)(\bar{u}_R\gamma_\mu u_R)$	\mathbf{C}
CSLL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\gamma^{\mu}s_R)(\bar{u}_R\gamma_{\mu}u_R) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{u}_Ru_L) \\ \frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Rs_L)(\bar{u}_Lu_R)$	\mathbf{C}
CSLR_sduu	$\frac{4\ddot{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R s_L)(\bar{u}_L u_R)$	\mathbf{C}
CSRL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(d_Ls_R)(\bar{u}_Ru_L)$	\mathbf{C}
CSRR_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_Ls_R)(\bar{u}_Lu_R)$	\mathbf{C}
CTLL_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R\sigma^{\mu\nu}s_L)(\bar{u}_R\sigma_{\mu\nu}u_L)$	\mathbf{C}
CTRR_sduu	$ \frac{\frac{4G_F}{\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)} $ $ \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) $	\mathbf{C}
CVLLt_sduu	$\frac{4\widetilde{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^{lpha}\gamma^{\mu}s_L^{eta})(\bar{u}_L^{eta}\gamma_{\mu}u_L^{lpha})$	\mathbf{C}

WC name	Operator	Type
CVLRt_sduu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^{\alpha}\gamma^{\mu}s_L^{\beta})(\bar{u}_R^{\beta}\gamma_{\mu}u_R^{\alpha})$	C
CVRLt_sduu	$rac{4rac{Q_F}{\sqrt{2}}}{\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	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_R^{\alpha}\gamma^{\mu}s_R^{\beta})(\bar{u}_R^{\beta}\gamma_{\mu}u_R^{\alpha})$	$^{\mathrm{C}}$
CSLLt_sduu	$rac{4\overset{\sim}{G_F}}{\sqrt{2}}V_{ts}V_{td}^*(ar{d}_R^lpha s_L^eta)(ar{u}_R^eta u_L^lpha)$	$^{\mathrm{C}}$
CSLRt_sduu	$rac{4 \overset{.}{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{4 \overleftarrow{G_F}}{\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{4\dot{G}_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{4\dot{G}_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)$	\mathbf{C}
CTRRt_sduu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*(\bar{d}_L^\alpha\sigma^{\mu\nu}s_R^\beta)(\bar{u}_L^\beta\sigma_{\mu\nu}u_R^\alpha)$	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
${\tt CL_sdnumunumu}$	$rac{4 V_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	$rac{4 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_e)$	\mathbf{C}
CL_sdnumunue	$\frac{4 \tilde{G}_F}{\sqrt{2}} V_{td} V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu d_L) (\bar{\nu}_e \gamma_\mu (1 - \gamma_5) \nu_\mu)$	\mathbf{C}
CL_sdnumunutau	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	\mathbf{C}
${\tt CL_sdnutaunumu}$	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_{\tau})$	\mathbf{C}
CL_sdnuenutau	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_{\tau}\gamma_{\mu}(1-\gamma_5)\nu_e)$	\mathbf{C}
CL_sdnutaunue	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^{\mu}d_L)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_{ au})$	\mathbf{C}
CR_sdnuenue	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_e\gamma_{\mu}(1-\gamma_5)\nu_e)$	\mathbf{C}
CR_sdnumunumu	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_{\mu})$	\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	$\frac{4G_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_e)$	\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	$\frac{4\dot{G}_F}{\sqrt{2}}V_{td}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^{\mu}d_R)(\bar{\nu}_{\mu}\gamma_{\mu}(1-\gamma_5)\nu_{ au})$	\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	$rac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*rac{e^2}{16\pi^2}(ar{d}_R\gamma^{\mu}s_R)(ar{\mu}\gamma_{\mu}e)$	\mathbf{C}
C10_sdemu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{\mu}\gamma_{\mu}\gamma_5 e)$	\mathbf{C}
C10p_sdemu	$rac{4G_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 e)$	\mathbf{C}
CS_sdemu	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}e)$	\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	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{\mu}\gamma_5 e)$	\mathbf{C}
CPp_sdemu	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{\mu}\gamma_5 e)$	C

sdmue

WC name	Operator	Type
C9_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^{\mu}s_L)(\bar{e}\gamma_{\mu}\mu)$	$\overline{\mathbf{C}}$
C9p_sdmue	$rac{4ar{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}\mu)$	\mathbf{C}
C10_sdmue	$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 \mu)$	\mathbf{C}
C10p_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}(\bar{d}_R\gamma^{\mu}s_R)(\bar{e}\gamma_{\mu}\gamma_5\mu)$	\mathbf{C}
CS_sdmue	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e}\mu)$	\mathbf{C}
CSp_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_Rs_L)(\bar{e}\mu)$	\mathbf{C}
CP_sdmue	$\frac{4G_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_L s_R)(\bar{e}\gamma_5\mu)$	\mathbf{C}
CPp_sdmue	$\frac{4\dot{G}_F}{\sqrt{2}}V_{ts}V_{td}^*\frac{e^2}{16\pi^2}m_s(\bar{d}_R s_L)(\bar{e}\gamma_5\mu)$	\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	$-rac{4reve{G_F}}{\sqrt{2}}V_{us}(ar{u}_R\gamma^\mu s_R)(ar{e}_L\gamma_\mu u_{eL})$	$^{\mathrm{C}}$
CSR_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{e}_R \nu_{eL})$	$^{\mathrm{C}}$
CSL_suenue	$-rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{e}_R u_{eL})$	$^{\mathrm{C}}$
CT_suenue	$-rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{eL})$	$^{\mathrm{C}}$
CVL_suenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{us}(ar{u}_L\gamma^\mu s_L)(ar{e}_L\gamma_\mu u_{\mu L})$	$^{\mathrm{C}}$
CVR_suenumu	$-rac{4ar{G}_F}{\sqrt{2}}V_{us}(ar{u}_R\gamma^\mu s_R)(ar{e}_L\gamma_\mu u_{\mu L})$	$^{\mathrm{C}}$
CSR_suenumu	$-rac{4ar{V}_F}{\sqrt{2}}V_{us}(ar{u}_L s_R)(ar{e}_R u_{\mu L})$	$^{\mathrm{C}}$
CSL_suenumu	$-rac{4G_F}{\sqrt{2}}V_{us}(ar{u}_Rs_L)(ar{e}_R u_{\mu L})$	\mathbf{C}
CT_suenumu	$-rac{4ar{G}_F}{\sqrt{2}}V_{us}(ar{u}_R\sigma^{\mu u}s_L)(ar{e}_R\sigma_{\mu u} u_{\mu L})$	\mathbf{C}

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

usmunu

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

udenu

WC name	Operator	Type
CVL_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^{\mu}d_L)(\bar{e}_L\gamma_{\mu}\nu_{eL})$ $-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^{\mu}d_R)(\bar{e}_L\gamma_{\mu}\nu_{eL})$	С
CVR_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	\mathbf{C}
CSR_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_Ld_R)(\bar{e}_R\nu_{eL})$	\mathbf{C}
CSL_duenue	$-rac{4G_F^*}{\sqrt{2}}V_{ud}(ar{u}_Ld_R)(ar{e}_R u_{eL}) \ -rac{4G_F^*}{\sqrt{2}}V_{ud}(ar{u}_Rd_L)(ar{e}_R u_{eL})$	\mathbf{C}
CT_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu}d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	\mathbf{C}
CVL_duenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{ud}(ar{u}_L\gamma^\mu d_L)(ar{e}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CVR_duenumu	$-rac{4ar{G_F}}{\sqrt{2}}V_{ud}(ar{u}_R\gamma^\mu d_R)(ar{e}_L\gamma_\mu u_{\mu L})$	\mathbf{C}
CSR_duenumu	$-rac{4G_F}{\sqrt{2}}V_{ud}(ar{u}_Ld_R)(ar{e}_R u_{\mu L})$	C

WC name	Operator	Type
CSL_duenumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_Rd_L)(\bar{e}_R\nu_{\mu L})$	C
CT_duenumu	$-\frac{4G_F}{G_F}V_{ud}(\bar{u}_R\sigma^{\mu\nu}d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	$^{\mathrm{C}}$
CVL_duenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{ud}(ar{u}_L\gamma^\mu d_L)(ar{e}_L\gamma_\mu u_{ au L})$	$^{\mathrm{C}}$
CVR_duenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{ud}(ar{u}_R\gamma^\mu d_R)(ar{e}_L\gamma_\mu u_{ au L})$	$^{\mathrm{C}}$
CSR_duenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{ud}(ar{u}_Ld_R)(ar{e}_R u_{ au L})$	$^{\mathrm{C}}$
CSL_duenutau	$-rac{4ar{G_F}}{\sqrt{2}}V_{ud}(ar{u}_Rd_L)(ar{e}_R u_{ au L})$	$^{\mathrm{C}}$
CT_duenutau	$-rac{4reve{G}_F}{\sqrt{2}}V_{ud}(ar{u}_R\sigma^{\mu u}d_L)(ar{e}_R\sigma_{\mu u} u_{ au L})$	С

udmunu

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

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WC name	Operator	Type
CG	$rac{4G_F}{\sqrt{2}}f^{ABC}G_{\mu}^{A u}G_{ u}^{B ho}G_{ ho}^{C\mu}$	R
CGtilde	$rac{4G_F}{\sqrt{2}}f^{ABC}\widetilde{G}^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	${ m R}$
C7_uu	$\frac{4G_F}{\sqrt{2}}\frac{e}{16\pi^2}m_u\bar{u}_L\sigma^{\mu\nu}u_RF_{\mu\nu}$	\mathbf{C}
C7_dd	$rac{4G_F^2}{\sqrt{2}} rac{e}{16\pi^2} m_d ar{d}_L \sigma^{\mu u} d_R F_{\mu u} \ rac{4G_F}{\sqrt{2}} rac{e}{16\pi^2} m_s ar{s}_L \sigma^{\mu u} s_R F_{\mu u} \ rac{4G_F}{\sqrt{2}} rac{e}{16\pi^2} m_e ar{e}_L \sigma^{\mu u} e_R F_{\mu u}$	$^{\mathrm{C}}$
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}$	$^{\mathrm{C}}$

WC name	Operator	Тур
C7_mumu	$rac{4G_F}{\sqrt{2}}rac{e}{16\pi^2}m_\muar{\mu}_L\sigma^{\mu u}\mu_RF_{\mu u}$	C
C8_uu	$\frac{4G_F}{\sqrt{2}} \frac{g_s}{16\pi^2} m_u \bar{u}_L \sigma^{\mu\nu} T^A u_R G^A_{\mu\nu}$	\mathbf{C}
C8_dd	$rac{4G_F}{\sqrt{2}}rac{g_s}{16\pi^2}m_dar{d}_L\sigma^{\mu u}T^Ad_RG^A_{\mu u}$	\mathbf{C}
C8_ss	$\frac{4G_F}{\sqrt{2}} \frac{g_s}{16\pi^2} m_s \bar{s}_L \sigma^{\mu u} T^A s_R G_{\mu u}^A$	\mathbf{C}
CTRR_eeuu	$rac{4G_F}{\sqrt{2}}(ar{e}_L\sigma^{\mu u}e_R)(ar{u}_L\sigma_{\mu u}u_R)$	\mathbf{C}
CTRR_mumuuu	$rac{4\overset{Y}{G_F}}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{u}_L\sigma_{\mu u}u_R)$	\mathbf{C}
CTRR_eedd	$rac{4reve{Q_F^2}}{\sqrt{2}}(ar{e}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}d_R)$	\mathbf{C}
CTRR_eess	$rac{4reve{G}_F^2}{\sqrt{2}}(ar{e}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}s_R)$	\mathbf{C}
CTRR_mumudd	$rac{4reve{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{4reve{G}_F^2}{\sqrt{2}}(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}s_R)$	\mathbf{C}
CS1RR_uuuu	$rac{4\overset{Q^{-}}{\sqrt{2}}}{\sqrt{2}}(ar{u}_{L}u_{R})(ar{u}_{L}u_{R})$	\mathbf{C}
CS8RR_uuuu	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$	\mathbf{C}
CS1RR_uudd	$\frac{4\overset{A}{G_{F}}}{\sqrt{2}}(ar{u}_{L}u_{R})(ar{d}_{L}d_{R})$	\mathbf{C}
CS1RR_uuss	$rac{4G_F}{\sqrt{2}}(ar{u}_L u_R)(ar{s}_L s_R)$	\mathbf{C}
CS8RR_uudd	$rac{4G_F}{\sqrt{2}}(ar{u}_L T^A u_R)(ar{d}_L T^A d_R)$	$^{\mathrm{C}}$
CS8RR_uuss	$\frac{4G_F}{\sqrt{2}}(ar{u}_L T^A u_R)(ar{s}_L T^A s_R)$	$^{\mathrm{C}}$
CS1RR_dddd	$rac{4ar{Q}_F^2}{\sqrt{2}}(ar{d}_L d_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
CS1RR_ddss	$rac{4ar{G}_F^2}{\sqrt{2}}(ar{d}_L d_R)(ar{s}_L s_R)$	\mathbf{C}
CS1RR_dssd	$rac{4rackylde{G}_F^2}{\sqrt{2}}(ar{d}_L s_R)(ar{s}_L d_R)$	\mathbf{C}
CS1RR_ssss	$rac{4ar{G}_F^2}{\sqrt{2}}(ar{s}_L s_R)(ar{s}_L s_R)$	\mathbf{C}
CS8RR_dddd	$\frac{4\ddot{G}_F^2}{\sqrt{2}}(ar{d}_L T^A d_R)(ar{d}_L T^A d_R)$	$^{\mathrm{C}}$
CS8RR_ddss	$\frac{4\ddot{G}_F^2}{\sqrt{2}}(ar{d}_L T^A d_R)(ar{s}_L T^A s_R)$	\mathbf{C}
CS8RR_dssd	$\frac{4\ddot{G}_F^2}{\sqrt{2}}(ar{d}_L T^A s_R)(ar{s}_L T^A d_R)$	\mathbf{C}
CS8RR_ssss	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{s}_L T^A s_R)(\bar{s}_L T^A s_R)$	\mathbf{C}
CS1RR_uddu	$rac{4reve{G_F}}{\sqrt{2}}(ar{u}_L d_R)(ar{d}_L u_R)$	\mathbf{C}
CS1RR_ussu	$\frac{4\widetilde{G}_F^c}{\sqrt{2}}(ar{u}_L s_R)(ar{s}_L u_R)$	\mathbf{C}
CS8RR_uddu	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	\mathbf{C}
CS8RR_ussu	$\frac{\sqrt{2}}{\sqrt{2}}(\bar{u}_L T^A s_R)(\bar{s}_L T^A u_R)$	\mathbf{C}
CSRL_eedd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{d}_R d_L)$	\mathbf{C}
CSRL_eess	$rac{4ar{G_F}}{\sqrt{2}}(ar{e}_L e_R)(ar{s}_R s_L)$	\mathbf{C}
CSRL_eeuu	$\frac{4G_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{u}_R u_L)$	\mathbf{C}
CSRL_mumudd	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{d}_Rd_L)$	\mathbf{C}
CSRL_mumuss	$rac{4reve{G_F}}{\sqrt{2}}(ar{\mu}_L\mu_R)(ar{s}_Rs_L)$	\mathbf{C}
CSRL_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{u}_Ru_L)$	\mathbf{C}
CSRR_eedd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{e}_L e_R)(\bar{d}_L d_R)$	\mathbf{C}
CSRR_eeee	$rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{d}_L d_R) \ rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{e}_L e_R) \ rac{4G_F}{\sqrt{2}}(ar{e}_L e_R)(ar{\mu}_L \mu_R)$	\mathbf{C}
CSRR_eemumu	$4\tilde{G}_F(\bar{e}_1e_D)(\bar{u}_1u_D)$	$^{\mathrm{C}}$

WC name	Operator	Type
CSRR_eess	$\frac{4G_F}{\sqrt{2}}(ar{e}_Le_R)(ar{s}_Ls_R)$	C
CSRR_eeuu	$rac{4\widetilde{G_F}}{\sqrt{2}}(ar{e}_L e_R)(ar{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_mumudd	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{d}_Ld_R)$	$^{\mathrm{C}}$
CSRR_mumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{\mu}_L\mu_R)$	\mathbf{C}
CSRR_mumuss	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{s}_Ls_R)$	\mathbf{C}
CSRR_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\mu_R)(\bar{u}_Lu_R)$	\mathbf{C}
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_dddd	$\frac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{d}_R\gamma_\mu d_R)$	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	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu d_R)$	\mathbf{C}
CV1LR_ssdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^\mu s_L)(\bar{d}_R\gamma_\mu d_R)$	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_uddu	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu d_L)(ar{d}_R\gamma_\mu u_R)$	\mathbf{C}
CV1LR_ussu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu s_L)(\bar{s}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
CV1LR_uudd	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{d}_R\gamma_\mu d_R)$	R
CV1LR_uuss	$\frac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{s}_R\gamma_\mu s_R)$	R
CV1LR_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{u}_R\gamma_\mu u_R)$	R
CV1RR_uudd	$rac{4G_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_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_dddd	$rac{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	$\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^\mu T^A d_L)(\bar{u}_R\gamma_\mu T^A u_R)$	R
CV8LR_dssd	$\frac{4G_F}{\sqrt{2}}(\bar{d}_L\gamma^{\mu}T^As_L)(\bar{s}_R\gamma_{\mu}T^Ad_R)$	$^{\mathrm{C}}$
CV8LR_ssdd	$rac{4reve{G_F}}{\sqrt{2}}(ar{s}_L\gamma^\mu T^A s_L)(ar{d}_R\gamma_\mu T^A d_R)$	R
CV8LR_ssss	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu T^A s_L)(ar{s}_R\gamma_\mu T^A s_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_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	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}T^As_L)(\bar{s}_R\gamma_{\mu}T^Au_R)$	\mathbf{C}
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	$\frac{\frac{4G_{F}}{\sqrt{2}}(s_{L}\gamma^{\mu}T^{A}s_{L})(d_{R}\gamma_{\mu}T^{A}d_{R})}{\frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}T^{A}s_{L})(\bar{s}_{R}\gamma_{\mu}T^{A}s_{R})}{\frac{4G_{F}}{\sqrt{2}}(\bar{s}_{L}\gamma^{\mu}T^{A}s_{L})(\bar{u}_{R}\gamma_{\mu}T^{A}u_{R})}$ $\frac{\frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}T^{A}d_{L})(\bar{d}_{R}\gamma_{\mu}T^{A}u_{R})}{\frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}T^{A}s_{L})(\bar{s}_{R}\gamma_{\mu}T^{A}u_{R})}$ $\frac{\frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}T^{A}u_{L})(\bar{d}_{R}\gamma_{\mu}T^{A}d_{R})}{\frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}T^{A}u_{L})(\bar{s}_{R}\gamma_{\mu}T^{A}s_{R})}$ $\frac{4G_{F}}{\sqrt{2}}(\bar{u}_{L}\gamma^{\mu}T^{A}u_{L})(\bar{u}_{R}\gamma_{\mu}T^{A}u_{R})$	\mathbf{R}

WC name	Operator	Type
CV8RR_uudd	$\frac{4G_F}{\sqrt{2}}(\bar{u}_R\gamma^\mu T^A u_R)(\bar{d}_R\gamma_\mu T^A d_R)$	R
CV8RR_uuss	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{u}_R\gamma^{\mu}T^Au_R)(\bar{s}_R\gamma_{\mu}T^As_R)$	R
CVLL_dddd	$rac{4 ar{G}_F}{\sqrt{2}} (ar{d}_L \gamma^\mu d_L) (ar{d}_L \gamma_\mu d_L)$	R
CVLL_ddss	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{s}_L\gamma_\mu s_L)$	R
CVLL_dssd	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu d_L)$	\mathbf{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	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{e}_L\gamma_\mu e_L)$	R
CVLL_eemumu	$rac{4G_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)$	${ m R}$
CVLL_eeuu	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{u}_L\gamma_\mu u_L)$	${ m R}$
CVLL_mumudd	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{d}_L\gamma_\mu d_L)$	R
CVLL_mumumumu	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{\mu}_L\gamma_\mu\mu_L)$	${ m R}$
CVLL_mumuss	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{s}_L\gamma_\mu s_L)$	${ m R}$
CVLL_mumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{u}_L\gamma_\mu u_L)$	${ m R}$
CVLL_ssss	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu s_L)$	${ m R}$
CVLL_uuuu	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{u}_L\gamma_\mu u_L)$	${ m R}$
CVLR_ddee	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{e}_R\gamma_\mu e_R)$	${ m R}$
CVLR_ddmumu	$rac{4G_F}{\sqrt{2}}(ar{d}_L\gamma^\mu d_L)(ar{\mu}_R\gamma_\mu\mu_R)$	${ m R}$
CVLR_eedd	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{d}_R\gamma_\mu d_R)$	${ m R}$
CVLR_eeee	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{e}_R\gamma_\mu e_R)$	${ m R}$
CVLR_eemumu	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{\mu}_R\gamma_\mu\mu_R)$	${ m R}$
CVLR_eess	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{s}_R\gamma_\mu s_R)$	${ m R}$
CVLR_eeuu	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu e_L)(ar{u}_R\gamma_\mu u_R)$	${ m R}$
CVLR_emumue	$rac{4G_F}{\sqrt{2}}(ar{e}_L\gamma^\mu\mu_L)(ar{\mu}_R\gamma_\mu e_R)$	$^{\mathrm{C}}$
CVLR_mumudd	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{d}_R\gamma_\mu d_R)$	${ m R}$
CVLR_mumuee	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{e}_R\gamma_\mu e_R)$	\mathbf{R}
CVLR_mumumumu	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{\mu}_R\gamma_\mu\mu_R)$	\mathbf{R}
CVLR_mumuss	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{s}_R\gamma_\mu s_R)$	${ m R}$
CVLR_mumuuu	$rac{4G_F}{\sqrt{2}}(ar{\mu}_L\gamma^\mu\mu_L)(ar{u}_R\gamma_\mu u_R)$	\mathbf{R}
CVLR_ssee	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{e}_R\gamma_\mu e_R)$	${ m R}$
CVLR_ssmumu	$rac{4G_F}{\sqrt{2}}(ar{s}_L\gamma^\mu s_L)(ar{\mu}_R\gamma_\mu\mu_R)$	${ m R}$
CVLR_uuee	$\frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^\mu u_L)(\bar{e}_R\gamma_\mu e_R)$	${ m R}$
CVLR_uumumu	$rac{4G_F}{\sqrt{2}}(ar{u}_L\gamma^\mu u_L)(ar{\mu}_R\gamma_\mu\mu_R)$	R
CVRR_dddd	$rac{4G_F}{\sqrt{2}}(ar{d}_R\gamma^\mu d_R)(ar{d}_R\gamma_\mu d_R)$	\mathbf{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	$rac{4G_F}{\sqrt{2}}(ar{d}_R\gamma^\mu s_R)(ar{s}_R\gamma_\mu d_R)$	R
CVRR_eedd	$\begin{array}{l} \frac{\sqrt{2}}{\sqrt{2}}(\bar{s}_L\gamma^{\mu}s_L)(\bar{e}_R\gamma_{\mu}e_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{s}_L\gamma^{\mu}s_L)(\bar{\mu}_R\gamma_{\mu}\mu_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}u_L)(\bar{e}_R\gamma_{\mu}e_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{u}_L\gamma^{\mu}u_L)(\bar{\mu}_R\gamma_{\mu}\mu_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}_R\gamma^{\mu}d_R)(\bar{d}_R\gamma_{\mu}d_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}_R\gamma^{\mu}d_R)(\bar{s}_R\gamma_{\mu}s_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}_R\gamma^{\mu}s_R)(\bar{s}_R\gamma_{\mu}d_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{e}_R\gamma^{\mu}e_R)(\bar{d}_R\gamma_{\mu}d_R) \end{array}$	R

WC name	Operator	Type
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	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{e}_R \gamma^\mu e_R) (ar{s}_R \gamma_\mu s_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_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{4 G_F}{\sqrt{2}} (ar{\mu}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu s_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	$\frac{4G_F}{\sqrt{2}}(\bar{s}_R\gamma^{\mu}s_R)(\bar{s}_R\gamma_{\mu}s_R)$	R
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	$\bar{e}_L \sigma^{\mu\nu} \mu_R F_{\mu\nu}$	C
Cgamma_emu	$ar{\mu}_L \sigma^{\mu u} e_R F_{\mu u}$	$^{\mathrm{C}}$
CVLL_eemue	$(ar{e}_L \gamma^\mu e_L) (ar{e}_L \gamma_\mu \mu_L)$	\mathbf{C}
CVLL_muemumu	$(ar{e}_L\gamma^\mu\mu_L)(ar{\mu}_L\gamma_\mu\mu_L)$	$^{\mathrm{C}}$
CVLL_mueuu	$(ar{e}_L \gamma^\mu \mu_L) (ar{u}_L \gamma_\mu u_L)$	\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	$(ar{e}_R\gamma^\mu e_R)(ar{e}_R\gamma_\mu\mu_R)$	\mathbf{C}
CVRR_muemumu	$(ar{e}_R\gamma^\mu\mu_R)(ar{\mu}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
CVRR_mueuu	$(ar{e}_R\gamma^\mu\mu_R)(ar{u}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
CVRR_muedd	$(ar{e}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu d_R)$	\mathbf{C}
CVRR_muess	$(ar{e}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu s_R)$	\mathbf{C}
CVLR_eemue	$(ar{e}_L \gamma^\mu e_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
CVLR_mueee	$(ar{e}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
CVLR_muemumu	$(ar{e}_L\gamma^\mu\mu_L)(ar{\mu}_R\gamma_\mu\mu_R)$	\mathbf{C}
CVLR_mumumue	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \mu_R)$	С
CVLR_mueuu	$(ar{e}_L \gamma^\mu \mu_L) (ar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
CVLR_muedd	$(ar{e}_L \gamma^\mu \mu_L) (d_R \gamma_\mu d_R)$	\mathbf{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_ddmue	$(d_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CVLR_ssmue	$(ar{s}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu \mu_R)$	\mathbf{C}
CSRL_mueuu	$(ar{e}_L\mu_R)(ar{u}_Ru_L)$	\mathbf{C}
CSRL_emuuu	$(ar{\mu}_L e_R)(ar{u}_R u_L)$	\mathbf{C}
CSRL_muedd	$(ar{e}_L \mu_R)(d_R d_L)$	\mathbf{C}
CSRL_muess	$(ar{e}_L\mu_R)(ar{s}_Rs_L)$	\mathbf{C}

WC name	Operator	Type
CSRL_emudd	$(\bar{\mu}_L e_R)(\bar{d}_R d_L)$	C
CSRL_emuss	$(ar{\mu}_L e_R)(ar{s}_R s_L)$	\mathbf{C}
CSRR_eemue	$(ar{e}_L e_R)(ar{e}_L \mu_R)$	\mathbf{C}
CSRR_eeemu	$(ar{e}_L e_R)(ar{\mu}_L e_R)$	С
CSRR_muemumu	$(ar{e}_L\mu_R)(ar{\mu}_L\mu_R)$	\mathbf{C}
CSRR_emumumu	$(ar{\mu}_L e_R)(ar{\mu}_L \mu_R)$	\mathbf{C}
CSRR_mueuu	$(ar{e}_L\mu_R)(ar{u}_Lu_R)$	\mathbf{C}
CSRR_emuuu	$(ar{\mu}_L e_R)(ar{u}_L u_R)$	С
CTRR_mueuu	$(\bar{e}_L \sigma^{\mu u} \mu_R) (\bar{u}_L \sigma_{\mu u} u_R)$	С
CTRR_emuuu	$(\bar{\mu}_L \sigma^{\mu u} e_R)(\bar{u}_L \sigma_{\mu u} u_R)$	С
CSRR_muedd	$(ar{e}_L\mu_R)(ar{d}_Ld_R)$	\mathbf{C}
CSRR_muess	$(ar{e}_L\mu_R)(ar{s}_Ls_R)$	\mathbf{C}
CSRR_emudd	$(ar{\mu}_L e_R)(ar{d}_L d_R)$	\mathbf{C}
CSRR_emuss	$(ar{\mu}_L e_R)(ar{s}_L s_R)$	\mathbf{C}
CTRR_muedd	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	\mathbf{C}
CTRR_muess	$(\bar{e}_L \sigma^{\mu\nu} \mu_R) (\bar{s}_L \sigma_{\mu\nu} s_R)$	\mathbf{C}
CTRR_emudd	$(ar{\mu}_L \sigma^{\mu u} e_R) (ar{d}_L \sigma_{\mu u} d_R)$	\mathbf{C}
CTRR_emuss	$(\bar{\mu}_L \sigma^{\mu u} e_R)(\bar{s}_L \sigma_{\mu u} s_R)$	C

nunumue

WC name	Operator	Type
CVLL_nuenuemue	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	
CVLL_numunueemu	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
CVLL_numunuemue	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
CVLL_numunumumue	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (\bar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
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_nutaunumuemu	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{\tau L}) (\bar{\mu}_L \dot{\gamma}_{\mu} e_L)$	$^{\mathrm{C}}$
CVLL_nutaunumumue	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (\bar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
CVLL_nutaunutaumu	$\epsilon (ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_{L} \gamma_{\mu} \mu_{L})$	$^{\mathrm{C}}$
CVLR_nuenuemue	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
CVLR_numunueemu	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{\mu}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
CVLR_numunuemue	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
CVLR_numunumumue	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (\bar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$
CVLR_nutaunueemu	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
CVLR_nutaunuemue	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{e}_R\gamma_{\mu}\mu_R)$	$^{\mathrm{C}}$
CVLR_nutaunumuemu	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\tau L}) (\bar{\mu}_R \gamma_{\mu} e_R)$	$^{\mathrm{C}}$
CVLR_nutaunumumue	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (\bar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$
CVLR_nutaunutaumu	$\epsilon (ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$

ffnunu

WC name	Operator	Type
CVLL_nuenuedd	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{d}_L\gamma_{\mu}d_L)$	R
CVLL_nuenueee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{e}_L\gamma_{\mu}e_L)$	R
CVLL_nuenuemumu	$\frac{4\tilde{G}_{F}^{2}}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\mu}_{L}\gamma_{\mu}\mu_{L})$	R
CVLL_nuenuess	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{s}_L\gamma_{\mu}s_L)$	R
CVLL_nuenueuu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{u}_L\gamma_{\mu}u_L)$	R
CVLL_nuenumudd	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{d}_L\gamma_{\mu}d_L)$	$^{\mathrm{C}}$
CVLL_nuenumuee	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{e}_L\gamma_{\mu}e_L)$	$^{\mathrm{C}}$
CVLL_nuenumumumu	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{\mu L})(ar{\mu}_L\gamma_\mu\mu_L)$	\mathbf{C}
CVLL_nuenumuss	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{s}_L\gamma_{\mu}s_L)$	\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_nuenutaudd	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{d}_L\gamma_{\mu}d_L)$	\mathbf{C}
CVLL_nuenutauee	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{e}_L\gamma_{\mu}e_L)$	\mathbf{C}
CVLL_nuenutaumumu	V 2	\mathbf{C}
CVLL_nuenutauss	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{s}_L\gamma_{\mu}s_L)$	\mathbf{C}
CVLL_nuenutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{u}_L\gamma_{\mu}u_L)$	\mathbf{C}
${\tt CVLL_numunumudd}$	$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_numunumumumu		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_numunumuuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\mu L})(\bar{u}_L\gamma_{\mu}u_L)$	R
CVLL_numunutaudd	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{d}_L\gamma_{\mu}d_L)$	\mathbf{C}
CVLL_numunutauee	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(\bar{e}_L\gamma_{\mu}e_L)$	\mathbf{C}
CVLL_numunutaumum	$u^{4G_F}_{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{\mu}_L\gamma_\mu\mu_L)$	\mathbf{C}
CVLL_numunutauss	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{\tau L})(\bar{s}_L\gamma_{\mu}s_L)$	$^{\mathrm{C}}$
CVLL_numunutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_L\gamma_{\mu}u_L)$	С
	$-rac{4ar{G_F}}{\sqrt{2}}(ar{ u}_{ au L}\gamma^{\mu} u_{ au L})(ar{d}_L\gamma_{\mu}d_L)$	R
	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{ au L}\gamma^\mu u_{ au L})(\bar{e}_L \gamma_\mu e_L)$	R
	$\frac{dG_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{\mu}_L\gamma_\mu\mu_L)$	R
	$rac{4ar{G}_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{s}_L\gamma_\mu s_L)$	R
CVLL_nutaunutauuu	$-rac{4ar{G}_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{u}_L\gamma_\mu u_L)$	R
CVLR_nuenuedd	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{d}_R\gamma_{\mu}d_R)$	R
CVLR_nuenueee	$ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{e}_R\gamma_{\mu}e_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{\mu}_R\gamma_{\mu}\mu_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{s}_R\gamma_{\mu}s_R) \\ \frac{4G_F}{\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{d}_R\gamma_{\mu}d_R) \\ \frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{d}_R\gamma_{\mu}d_R) $	R
CVLR_nuenuemumu	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{\mu}_R\gamma_{\mu}\mu_R)$	R
CVLR_nuenuess	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{s}_R\gamma_{\mu}s_R)$	R
CVLR_nuenueuu	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{eL})(ar{u}_R\gamma_\mu u_R)$	R
CVLR_nuenumudd	$\frac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{\mu L})(ar{d}_R\gamma_\mu d_R)$	$^{\mathrm{C}}$
CVLR_nuenumuee	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_R\gamma_{\mu}e_R)$	С

WC name	Operator	Type
CVLR_nuenumumumu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{\mu}_R\gamma_{\mu}\mu_R)$	C
CVLR_nuenumuss	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{s}_R\gamma_{\mu}s_R)$	\mathbf{C}
CVLR_nuenumuuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{u}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
CVLR_nuenutaudd	$rac{4raketilde{G}_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_R\gamma_{\mu}d_R)$	$^{\mathrm{C}}$
CVLR_nuenutauee	$\frac{4\ddot{G_F}}{\sqrt{2}}(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_R\gamma_{\mu}e_R)$	$^{\mathrm{C}}$
CVLR_nuenutaumumu	$rac{4G_F}{\sqrt{2}}(ar{ u}_{eL}\gamma^\mu u_{ au L})(ar{\mu}_R\gamma_\mu\mu_R)$	\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_nuenutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R)$	\mathbf{C}
CVLR_numunumudd	$rac{4ar{G}_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{d}_R\gamma_{\mu}d_R)$	R
CVLR_numunumuee	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\mu L})(\bar{e}_R\gamma_{\mu}e_R)$	R
CVLR_numunumumumu	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{\mu}_R\gamma_{\mu}\mu_R)$	R
CVLR_numunumuss	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{s}_R\gamma_{\mu}s_R)$	R
CVLR_numunumuuu	$rac{4G_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{u}_R\gamma_{\mu}u_R)$	R
CVLR_numunutaudd	$rac{4ar{G}_F}{\sqrt{2}}(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{d}_R\gamma_{\mu}d_R)$	\mathbf{C}
CVLR_numunutauee	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{\tau L})(\bar{e}_R\gamma_{\mu}e_R)$	\mathbf{C}
CVLR_numunutaumum	$u^{4\overline{G}_F}_{\sqrt{2}}(ar{ u}_{\mu L}\gamma^\mu u_{ au L})(ar{\mu}_R\gamma_\mu\mu_R)$	\mathbf{C}
CVLR_numunutauss	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{\mu L}\gamma^{\mu} u_{\tau L})(\bar{s}_R\gamma_{\mu}s_R)$	\mathbf{C}
CVLR_numunutauuu	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R)$	\mathbf{C}
CVLR_nutaunutaudd	$rac{4G_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{d}_R\gamma_\mu d_R)$	R
CVLR_nutaunutauee	$\frac{4G_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{e}_R\gamma_{\mu}e_R)$	R
CVLR_nutaunutaumu	$\frac{dG_F}{\sqrt{2}}(ar{ u}_{ au L}\gamma^\mu u_{ au L})(ar{\mu}_R\gamma_\mu\mu_R)$	R
CVLR_nutaunutauss	$\frac{4G_F}{\sqrt{2}}(\bar{ u}_{\tau L}\gamma^{\mu} u_{\tau L})(\bar{s}_R\gamma_{\mu}s_R)$	R
CVLR_nutaunutauuu	$\frac{4\bar{G}_F}{\sqrt{2}}(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R)$	R