Basis `flavio` (EFT `WET`)

Basis used by the flavio package. Neutrinos are in the flavour basis.

Sectors

The effective Lagrangian is defined as

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

`sbsb`

WC name	Operator	Type
`CVLL_bsbs`	$(\bar{s}_L \gamma^\mu b_L)(\bar{s}_L \gamma_\mu b_L)$	C
`CVRR_bsbs`	$(\bar{s}_R \gamma^\mu b_R)(\bar{s}_R \gamma_\mu b_R)$	C
`CSLL_bsbs`	$(\bar{s}_R b_L)(\bar{s}_R b_L)$	C
`CSRR_bsbs`	$(\bar{s}_L b_R)(\bar{s}_L b_R)$	C
`CTLL_bsbs`	$(\bar{s}_R \sigma^{\mu\nu} b_L)(\bar{s}_R \sigma_{\mu\nu} b_L)$	C
`CTRR_bsbs`	$(\bar{s}_L \sigma^{\mu\nu} b_R)(\bar{s}_L \sigma_{\mu\nu} b_R)$	C
`CVLR_bsbs`	$(\bar{s}_L \gamma^\mu b_L)(\bar{s}_R \gamma_\mu b_R)$	C
`CSLR_bsbs`	$(\bar{s}_R b_L)(\bar{s}_L b_R)$	C

`dbdb`

WC name	Operator	Type
`CVLL_bdbd`	$(\bar{d}_L \gamma^\mu b_L)(\bar{d}_L \gamma_\mu b_L)$	C
`CVRR_bdbd`	$(\bar{d}_R \gamma^\mu b_R)(\bar{d}_R \gamma_\mu b_R)$	C
`CSLL_bdbd`	$(\bar{d}_R b_L)(\bar{d}_R b_L)$	C
`CSRR_bdbd`	$(\bar{d}_L b_R)(\bar{d}_L b_R)$	C
`CTLL_bdbd`	$(\bar{d}_R \sigma^{\mu\nu} b_L)(\bar{d}_R \sigma_{\mu\nu} b_L)$	C
`CTRR_bdbd`	$(\bar{d}_L \sigma^{\mu\nu} b_R)(\bar{d}_L \sigma_{\mu\nu} b_R)$	C
`CVLR_bdbd`	$(\bar{d}_L \gamma^\mu b_L)(\bar{d}_R \gamma_\mu b_R)$	C
`CSLR_bdbd`	$(\bar{d}_R b_L)(\bar{d}_L b_R)$	C

`sdsd`

WC name	Operator	Type
`CVLL_sdsd`	$(\bar{d}_L \gamma^\mu s_L)(\bar{d}_L \gamma_\mu s_L)$	C

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

`sb`

WC name	Operator	Type
`C9_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu e)$	C
`C9p_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu e)$	C
`C10_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu\gamma_5 e)$	C
`C10p_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu\gamma_5 e)$	C
`CS_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_L b_R)(\bar{e}e)$	C
`CSp_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_R b_L)(\bar{e}e)$	C
`CP_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_L b_R)(\bar{e}\gamma_5 e)$	C
`CPp_bsee`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_R b_L)(\bar{e}\gamma_5 e)$	C
`C9_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\mu)$	C
`C9p_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\mu)$	C
`C10_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	C
`C10p_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	C
`CS_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_L b_R)(\bar{\mu}\mu)$	C
`CSp_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_R b_L)(\bar{\mu}\mu)$	C
`CP_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_L b_R)(\bar{\mu}\gamma_5\mu)$	C
`CPp_bsmumu`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_R b_L)(\bar{\mu}\gamma_5\mu)$	C
`C9_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu\tau)$	C
`C9p_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu\tau)$	C
`C10_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu\gamma_5\tau)$	C
`C10p_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu\gamma_5\tau)$	C
`CS_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_L b_R)(\bar{\tau}\tau)$	C
`CSp_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_R b_L)(\bar{\tau}\tau)$	C
`CP_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_L b_R)(\bar{\tau}\gamma_5\tau)$	C
`CPp_bstautau`	$\frac{4G_F}{\sqrt{2}}V_{tb}V_{ts}^*\frac{e^2}{16\pi^2}m_b(\bar{s}_R b_L)(\bar{\tau}\gamma_5\tau)$	C

WC name	Operator	Type
C7_bs	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e}{16\pi^2} m_b (\bar{s}_L \sigma^{\mu\nu} b_R)(F_{\mu\nu})$	C
C7p_bs	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e}{16\pi^2} m_b (\bar{s}_R \sigma^{\mu\nu} b_L)(F_{\mu\nu})$	C
C8_bs	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{g_s}{16\pi^2} m_b (\bar{s}_L \sigma^{\mu\nu} T^a b_R)(G^a_{\mu\nu})$	C
C8p_bs	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{g_s}{16\pi^2} m_b (\bar{s}_R \sigma^{\mu\nu} T^a b_L)(G^a_{\mu\nu})$	C

sbnunu

WC name	Operator	Type
CL_bsnuenue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_e)$	C
CL_bsnumunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CL_bsnutaunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CL_bsnuenumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_e)$	C
CL_bsnumunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CL_bsnumunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CL_bsnutaunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CL_bsnuenutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_e)$	C
CL_bsnutaunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CR_bsnuenue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_e)$	C
CR_bsnumunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CR_bsnutaunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CR_bsnuenumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_e)$	C
CR_bsnumunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CR_bsnumunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CR_bsnutaunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CR_bsnuenutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_e)$	C
CR_bsnutaunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\tau)$	C

sdnunu

WC name	Operator	Type
CL_sdnuenue	$\frac{4G_F}{\sqrt{2}} V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu d_L)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_e)$	C
CL_sdnumunumu	$\frac{4G_F}{\sqrt{2}} V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu d_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CL_sdnutaunutau	$\frac{4G_F}{\sqrt{2}} V_{td}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu d_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\tau)$	C

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

db

WC name	Operator	Type
C9_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu e)$	C
C9p_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu e)$	C
C10_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu\gamma_5 e)$	C
C10p_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu\gamma_5 e)$	C
CS_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{e}e)$	C
CSp_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{e}e)$	C
CP_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{e}\gamma_5 e)$	C
CPp_bdee	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{e}\gamma_5 e)$	C
C9_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\mu)$	C
C9p_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\mu)$	C
C10_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	C
C10p_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	C
CS_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\mu}\mu)$	C
CSp_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{\mu}\mu)$	C
CP_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\mu}\gamma_5\mu)$	C

WC name	Operator	Type
CPp_bdmumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_R b_L)(\bar{\mu}\gamma_5 \mu)$	C
C9_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\tau}\gamma_\mu \tau)$	C
C9p_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\tau}\gamma_\mu \tau)$	C
C10_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\tau}\gamma_\mu \gamma_5 \tau)$	C
C10p_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\tau}\gamma_\mu \gamma_5 \tau)$	C
CS_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_L b_R)(\bar{\tau}\tau)$	C
CSp_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_R b_L)(\bar{\tau}\tau)$	C
CP_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_L b_R)(\bar{\tau}\gamma_5 \tau)$	C
CPp_bdtautau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_R b_L)(\bar{\tau}\gamma_5 \tau)$	C
C7_bd	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e}{16\pi^2} m_b (\bar{d}_L \sigma^{\mu\nu} b_R)(F_{\mu\nu})$	C
C7p_bd	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e}{16\pi^2} m_b (\bar{d}_R \sigma^{\mu\nu} b_L)(F_{\mu\nu})$	C
C8_bd	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{g_s}{16\pi^2} m_b (\bar{d}_L \sigma^{\mu\nu} T^a b_R)(G^a_{\mu\nu})$	C
C8p_bd	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{g_s}{16\pi^2} m_b (\bar{d}_R \sigma^{\mu\nu} T^a b_L)(G^a_{\mu\nu})$	C

dbnunu

WC name	Operator	Type
CL_bdnuenue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_e)$	C
CL_bdnumunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CL_bdnutaunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CL_bdnuenumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_e)$	C
CL_bdnumunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CL_bdnumunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CL_bdnutaunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CL_bdnuenutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_e)$	C
CL_bdnutaunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CR_bdnuenue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_e)$	C
CR_bdnumunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CR_bdnutaunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CR_bdnuenumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_e)$	C
CR_bdnumunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_e \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CR_bdnumunutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_\mu)$	C
CR_bdnutaunumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_\mu \gamma_\mu (1-\gamma_5) \nu_\tau)$	C
CR_bdnuenutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_\tau \gamma_\mu (1-\gamma_5) \nu_e)$	C

WC name	Operator	Type
CR_bdnutaunue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\nu}_e \gamma_\mu (1-\gamma_5)\nu_\tau)$	C

sbemu

WC name	Operator	Type
C9_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\mu}\gamma_\mu e)$	C
C9p_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\mu}\gamma_\mu e)$	C
C10_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\mu}\gamma_\mu\gamma_5 e)$	C
C10p_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\mu}\gamma_\mu\gamma_5 e)$	C
CS_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{\mu} e)$	C
CSp_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{\mu} e)$	C
CP_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{\mu}\gamma_5 e)$	C
CPp_bsemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{\mu}\gamma_5 e)$	C

sbmue

WC name	Operator	Type
C9_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{e}\gamma_\mu \mu)$	C
C9p_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{e}\gamma_\mu \mu)$	C
C10_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{e}\gamma_\mu\gamma_5 \mu)$	C
C10p_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{e}\gamma_\mu\gamma_5 \mu)$	C
CS_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{e} \mu)$	C
CSp_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{e} \mu)$	C
CP_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{e}\gamma_5 \mu)$	C
CPp_bsmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{e}\gamma_5 \mu)$	C

sbetau

WC name	Operator	Type
C9_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\tau}\gamma_\mu e)$	C
C9p_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\tau}\gamma_\mu e)$	C
C10_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\tau}\gamma_\mu\gamma_5 e)$	C

WC name	Operator	Type
C10p_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu\gamma_5 e)$	C
CS_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\tau} e)$	C
CSp_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\tau} e)$	C
CP_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\tau}\gamma_5 e)$	C
CPp_bsetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\tau}\gamma_5 e)$	C

sbtaue

WC name	Operator	Type
C9_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu\tau)$	C
C9p_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu\tau)$	C
C10_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu\gamma_5\tau)$	C
C10p_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu\gamma_5\tau)$	C
CS_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{e}\tau)$	C
CSp_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{e}\tau)$	C
CP_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{e}\gamma_5\tau)$	C
CPp_bstaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{e}\gamma_5\tau)$	C

sbmutau

WC name	Operator	Type
C9_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu\mu)$	C
C9p_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu\mu)$	C
C10_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu\gamma_5\mu)$	C
C10p_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu\gamma_5\mu)$	C
CS_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\tau}\mu)$	C
CSp_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\tau}\mu)$	C
CP_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\tau}\gamma_5\mu)$	C
CPp_bsmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\tau}\gamma_5\mu)$	C

sbtaumu

WC name	Operator	Type
C9_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\tau)$	C
C9p_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\tau)$	C
C10_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\gamma_5\tau)$	C
C10p_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2}(\bar{s}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\gamma_5\tau)$	C
CS_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\mu}\tau)$	C
CSp_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\mu}\tau)$	C
CP_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\mu}\gamma_5\tau)$	C
CPp_bstaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\mu}\gamma_5\tau)$	C

dbemu

WC name	Operator	Type
C9_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu e)$	C
C9p_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu e)$	C
C10_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\gamma_5 e)$	C
C10p_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\gamma_5 e)$	C
CS_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\mu} e)$	C
CSp_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{\mu} e)$	C
CP_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\mu}\gamma_5 e)$	C
CPp_bdemu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{\mu}\gamma_5 e)$	C

dbmue

WC name	Operator	Type
C9_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu\mu)$	C
C9p_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu\mu)$	C
C10_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu\gamma_5\mu)$	C
C10p_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu\gamma_5\mu)$	C
CS_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{e}\mu)$	C
CSp_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{e}\mu)$	C
CP_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{e}\gamma_5\mu)$	C
CPp_bdmue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{e}\gamma_5\mu)$	C

dbetau

WC name	Operator	Type
C9_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu e)$	C
C9p_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu e)$	C
C10_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu\gamma_5 e)$	C
C10p_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu\gamma_5 e)$	C
CS_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\tau} e)$	C
CSp_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{\tau} e)$	C
CP_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\tau}\gamma_5 e)$	C
CPp_bdetau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{\tau}\gamma_5 e)$	C

dbtaue

WC name	Operator	Type
C9_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu \tau)$	C
C9p_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu \tau)$	C
C10_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{e}\gamma_\mu\gamma_5 \tau)$	C
C10p_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{e}\gamma_\mu\gamma_5 \tau)$	C
CS_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{e} \tau)$	C
CSp_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{e} \tau)$	C
CP_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{e}\gamma_5 \tau)$	C
CPp_bdtaue	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{e}\gamma_5 \tau)$	C

dbmutau

WC name	Operator	Type
C9_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu \mu)$	C
C9p_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu \mu)$	C
C10_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_L\gamma^\mu b_L)(\bar{\tau}\gamma_\mu\gamma_5 \mu)$	C
C10p_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2}(\bar{d}_R\gamma^\mu b_R)(\bar{\tau}\gamma_\mu\gamma_5 \mu)$	C
CS_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\tau} \mu)$	C
CSp_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_R b_L)(\bar{\tau} \mu)$	C
CP_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b(\bar{d}_L b_R)(\bar{\tau}\gamma_5 \mu)$	C

WC name	Operator	Type
CPp_bdmutau	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_R b_L)(\bar{\tau}\gamma_5 \mu)$	C

dbtaumu

WC name	Operator	Type
C9_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\mu}\gamma_\mu \tau)$	C
C9p_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\mu}\gamma_\mu \tau)$	C
C10_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_L \gamma^\mu b_L)(\bar{\mu}\gamma_\mu \gamma_5 \tau)$	C
C10p_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} (\bar{d}_R \gamma^\mu b_R)(\bar{\mu}\gamma_\mu \gamma_5 \tau)$	C
CS_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_L b_R)(\bar{\mu}\tau)$	C
CSp_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_R b_L)(\bar{\mu}\tau)$	C
CP_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_L b_R)(\bar{\mu}\gamma_5 \tau)$	C
CPp_bdtaumu	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{td}^* \frac{e^2}{16\pi^2} m_b (\bar{d}_R b_L)(\bar{\mu}\gamma_5 \tau)$	C

cbenu

WC name	Operator	Type
CVL_bcenue	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L \gamma^\mu b_L)(\bar{e}_L \gamma_\mu \nu_{eL})$	C
CVR_bcenue	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R \gamma^\mu b_R)(\bar{e}_L \gamma_\mu \nu_{eL})$	C
CSR_bcenue	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L b_R)(\bar{e}_R \nu_{eL})$	C
CSL_bcenue	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R b_L)(\bar{e}_R \nu_{eL})$	C
CT_bcenue	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R \sigma^{\mu\nu} b_L)(\bar{e}_R \sigma_{\mu\nu} \nu_{eL})$	C
CVL_bcenumu	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L \gamma^\mu b_L)(\bar{e}_L \gamma_\mu \nu_{\mu L})$	C
CVR_bcenumu	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R \gamma^\mu b_R)(\bar{e}_L \gamma_\mu \nu_{\mu L})$	C
CSR_bcenumu	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L b_R)(\bar{e}_R \nu_{\mu L})$	C
CSL_bcenumu	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R b_L)(\bar{e}_R \nu_{\mu L})$	C
CT_bcenumu	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R \sigma^{\mu\nu} b_L)(\bar{e}_R \sigma_{\mu\nu} \nu_{\mu L})$	C
CVL_bcenutau	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L \gamma^\mu b_L)(\bar{e}_L \gamma_\mu \nu_{\tau L})$	C
CVR_bcenutau	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R \gamma^\mu b_R)(\bar{e}_L \gamma_\mu \nu_{\tau L})$	C
CSR_bcenutau	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L b_R)(\bar{e}_R \nu_{\tau L})$	C
CSL_bcenutau	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R b_L)(\bar{e}_R \nu_{\tau L})$	C
CT_bcenutau	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R \sigma^{\mu\nu} b_L)(\bar{e}_R \sigma_{\mu\nu} \nu_{\tau L})$	C

ubenu

WC name	Operator	Type
CVL_buenue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CVR_buenue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CSR_buenue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{e}_R\nu_{eL})$	C
CSL_buenue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{e}_R\nu_{eL})$	C
CT_buenue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_buenumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CVR_buenumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CSR_buenumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{e}_R\nu_{\mu L})$	C
CSL_buenumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{e}_R\nu_{\mu L})$	C
CT_buenumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_buenutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CVR_buenutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CSR_buenutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{e}_R\nu_{\tau L})$	C
CSL_buenutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{e}_R\nu_{\tau L})$	C
CT_buenutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

usenu

WC name	Operator	Type
CVL_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CVR_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CSR_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{e}_R\nu_{eL})$	C
CSL_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{e}_R\nu_{eL})$	C
CT_suenue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_suenumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CVR_suenumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CSR_suenumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{e}_R\nu_{\mu L})$	C
CSL_suenumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{e}_R\nu_{\mu L})$	C
CT_suenumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_suenutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CVR_suenutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CSR_suenutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{e}_R\nu_{\tau L})$	C
CSL_suenutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{e}_R\nu_{\tau L})$	C
CT_suenutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

csenu

WC name	Operator	Type
CVL_scenue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CVR_scenue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CSR_scenue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{e}_R\nu_{eL})$	C
CSL_scenue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{e}_R\nu_{eL})$	C
CT_scenue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_scenumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CVR_scenumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CSR_scenumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{e}_R\nu_{\mu L})$	C
CSL_scenumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{e}_R\nu_{\mu L})$	C
CT_scenumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_scenutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CVR_scenutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CSR_scenutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{e}_R\nu_{\tau L})$	C
CSL_scenutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{e}_R\nu_{\tau L})$	C
CT_scenutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

cdenu

WC name	Operator	Type
CVL_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CVR_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CSR_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{e}_R\nu_{eL})$	C
CSL_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{e}_R\nu_{eL})$	C
CT_dcenue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_dcenumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CVR_dcenumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CSR_dcenumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{e}_R\nu_{\mu L})$	C
CSL_dcenumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{e}_R\nu_{\mu L})$	C
CT_dcenumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_dcenutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CVR_dcenutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CSR_dcenutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{e}_R\nu_{\tau L})$	C
CSL_dcenutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{e}_R\nu_{\tau L})$	C
CT_dcenutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

cbmunu

WC name	Operator	Type
CVL_bcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CVR_bcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CSR_bcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L b_R)(\bar{\mu}_R\nu_{eL})$	C
CSL_bcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R b_L)(\bar{\mu}_R\nu_{eL})$	C
CT_bcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu} b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_bcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CVR_bcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CSR_bcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L b_R)(\bar{\mu}_R\nu_{\mu L})$	C
CSL_bcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R b_L)(\bar{\mu}_R\nu_{\mu L})$	C
CT_bcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu} b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_bcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CVR_bcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CSR_bcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L b_R)(\bar{\mu}_R\nu_{\tau L})$	C
CSL_bcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R b_L)(\bar{\mu}_R\nu_{\tau L})$	C
CT_bcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu} b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

ubmunu

WC name	Operator	Type
CVL_bumunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CVR_bumunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CSR_bumunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{\mu}_R\nu_{eL})$	C
CSL_bumunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{\mu}_R\nu_{eL})$	C
CT_bumunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_bumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CVR_bumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CSR_bumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{\mu}_R\nu_{\mu L})$	C
CSL_bumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{\mu}_R\nu_{\mu L})$	C
CT_bumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_bumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CVR_bumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CSR_bumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{\mu}_R\nu_{\tau L})$	C
CSL_bumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{\mu}_R\nu_{\tau L})$	C
CT_bumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	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	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CSR_sumunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\mu}_R\nu_{eL})$	C
CSL_sumunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{\mu}_R\nu_{eL})$	C
CT_sumunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_sumunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CVR_sumunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CSR_sumunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\mu}_R\nu_{\mu L})$	C
CSL_sumunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{\mu}_R\nu_{\mu L})$	C
CT_sumunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CVR_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CSR_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\mu}_R\nu_{\tau L})$	C
CSL_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{\mu}_R\nu_{\tau L})$	C
CT_sumunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

csmunu

WC name	Operator	Type
CVL_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CVR_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CSR_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\mu}_R\nu_{eL})$	C
CSL_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{\mu}_R\nu_{eL})$	C
CT_scmunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_scmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CVR_scmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CSR_scmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\mu}_R\nu_{\mu L})$	C
CSL_scmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{\mu}_R\nu_{\mu L})$	C
CT_scmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_scmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CVR_scmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CSR_scmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\mu}_R\nu_{\tau L})$	C
CSL_scmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{\mu}_R\nu_{\tau L})$	C
CT_scmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

cdmunu

WC name	Operator	Type
CVL_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CVR_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CSR_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{\mu}_R\nu_{eL})$	C
CSL_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{\mu}_R\nu_{eL})$	C
CT_dcmunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_dcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CVR_dcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CSR_dcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{\mu}_R\nu_{\mu L})$	C
CSL_dcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{\mu}_R\nu_{\mu L})$	C
CT_dcmunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_dcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CVR_dcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CSR_dcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{\mu}_R\nu_{\tau L})$	C
CSL_dcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{\mu}_R\nu_{\tau L})$	C
CT_dcmunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

cbtaunu

WC name	Operator	Type
CVL_bctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CVR_bctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CSR_bctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L b_R)(\bar{\tau}_R\nu_{eL})$	C
CSL_bctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R b_L)(\bar{\tau}_R\nu_{eL})$	C
CT_bctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu} b_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_bctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CVR_bctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CSR_bctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L b_R)(\bar{\tau}_R\nu_{\mu L})$	C
CSL_bctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R b_L)(\bar{\tau}_R\nu_{\mu L})$	C
CT_bctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu} b_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_bctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CVR_bctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CSR_bctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L b_R)(\bar{\tau}_R\nu_{\tau L})$	C
CSL_bctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R b_L)(\bar{\tau}_R\nu_{\tau L})$	C
CT_bctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu} b_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

ubtaunu

WC name	Operator	Type
CVL_butaunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CVR_butaunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CSR_butaunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{\tau}_R\nu_{eL})$	C
CSL_butaunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{\tau}_R\nu_{eL})$	C
CT_butaunue	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_butaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CVR_butaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CSR_butaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{\tau}_R\nu_{\mu L})$	C
CSL_butaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{\tau}_R\nu_{\mu L})$	C
CT_butaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_butaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CVR_butaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CSR_butaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{\tau}_R\nu_{\tau L})$	C
CSL_butaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{\tau}_R\nu_{\tau L})$	C
CT_butaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu} b_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

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	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CSR_sutaunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\tau}_R\nu_{eL})$	C
CSL_sutaunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{\tau}_R\nu_{eL})$	C
CT_sutaunue	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CVR_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CSR_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\tau}_R\nu_{\mu L})$	C
CSL_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{\tau}_R\nu_{\mu L})$	C
CT_sutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L\gamma^\mu s_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CVR_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CSR_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_L s_R)(\bar{\tau}_R\nu_{\tau L})$	C
CSL_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R s_L)(\bar{\tau}_R\nu_{\tau L})$	C
CT_sutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_R\sigma^{\mu\nu} s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

cstaunu

WC name	Operator	Type
CVL_sctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CVR_sctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CSR_sctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\tau}_R\nu_{eL})$	C
CSL_sctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{\tau}_R\nu_{eL})$	C
CT_sctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_sctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CVR_sctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CSR_sctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\tau}_R\nu_{\mu L})$	C
CSL_sctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{\tau}_R\nu_{\mu L})$	C
CT_sctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_sctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L\gamma^\mu s_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CVR_sctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\gamma^\mu s_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CSR_sctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_L s_R)(\bar{\tau}_R\nu_{\tau L})$	C
CSL_sctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R s_L)(\bar{\tau}_R\nu_{\tau L})$	C
CT_sctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_R\sigma^{\mu\nu} s_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

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	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CSR_dctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{\tau}_R\nu_{eL})$	C
CSL_dctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{\tau}_R\nu_{eL})$	C
CT_dctaunue	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CVR_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CSR_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{\tau}_R\nu_{\mu L})$	C
CSL_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{\tau}_R\nu_{\mu L})$	C
CT_dctaunumu	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CVR_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CSR_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_L d_R)(\bar{\tau}_R\nu_{\tau L})$	C
CSL_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R d_L)(\bar{\tau}_R\nu_{\tau L})$	C
CT_dctaunutau	$-\frac{4G_F}{\sqrt{2}}V_{cd}(\bar{c}_R\sigma^{\mu\nu} d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	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	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
CSR_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{e}_R\nu_{eL})$	C
CSL_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{e}_R\nu_{eL})$	C
CT_duenue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_duenumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CVR_duenumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{\mu L})$	C
CSR_duenumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{e}_R\nu_{\mu L})$	C
CSL_duenumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{e}_R\nu_{\mu L})$	C
CT_duenumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_duenutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CVR_duenutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{e}_L\gamma_\mu\nu_{\tau L})$	C
CSR_duenutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{e}_R\nu_{\tau L})$	C
CSL_duenutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{e}_R\nu_{\tau L})$	C
CT_duenutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

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	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{eL})$	C
CSR_dumunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{\mu}_R\nu_{eL})$	C
CSL_dumunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{\mu}_R\nu_{eL})$	C
CT_dumunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_dumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CVR_dumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
CSR_dumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{\mu}_R\nu_{\mu L})$	C
CSL_dumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{\mu}_R\nu_{\mu L})$	C
CT_dumunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_dumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CVR_dumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{\mu}_L\gamma_\mu\nu_{\tau L})$	C
CSR_dumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{\mu}_R\nu_{\tau L})$	C
CSL_dumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{\mu}_R\nu_{\tau L})$	C
CT_dumunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

udtaunu

WC name	Operator	Type
CVL_dutaunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CVR_dutaunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{eL})$	C
CSR_dutaunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{\tau}_R\nu_{eL})$	C
CSL_dutaunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{\tau}_R\nu_{eL})$	C
CT_dutaunue	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{eL})$	C
CVL_dutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CVR_dutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{\mu L})$	C
CSR_dutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{\tau}_R\nu_{\mu L})$	C
CSL_dutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{\tau}_R\nu_{\mu L})$	C
CT_dutaunumu	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\mu L})$	C
CVL_dutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L\gamma^\mu d_L)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CVR_dutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\gamma^\mu d_R)(\bar{\tau}_L\gamma_\mu\nu_{\tau L})$	C
CSR_dutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_L d_R)(\bar{\tau}_R\nu_{\tau L})$	C
CSL_dutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R d_L)(\bar{\tau}_R\nu_{\tau L})$	C
CT_dutaunutau	$-\frac{4G_F}{\sqrt{2}}V_{ud}(\bar{u}_R\sigma^{\mu\nu} d_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	C