Basis `EOS` (EFT `WET`)

Basis used by the EOS software as of version 0.4 or later. 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
`sbsb::c1`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_L\gamma^\mu b_L)(\bar{s}_L\gamma_\mu b_L)$	C
`sbsb::c1'`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_R\gamma^\mu b_R)(\bar{s}_R\gamma_\mu b_R)$	C
`sbsb::c2`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_R b_L)(\bar{s}_R b_L)$	C
`sbsb::c2'`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_L b_R)(\bar{s}_L b_R)$	C
`sbsb::c3`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_{\alpha R} b_{\beta L})(\bar{s}_{\beta R} b_{\alpha L})$	C
`sbsb::c3'`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_{\alpha L} b_{\beta R})(\bar{s}_{\beta L} b_{\alpha R})$	C
`sbsb::c4`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_R b_L)(\bar{s}_L b_R)$	C
`sbsb::c5`	$-\frac{4G_F}{\sqrt{2}}(V_{tb}V_{ts}^*)^2(\bar{s}_{\alpha R} b_{\beta L})(\bar{s}_{\beta L} b_{\alpha R})$	C

`sbcu`

WC name	Operator	Type
`sbcu::c1`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
`sbcu::c2`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)$	C
`sbcu::c3`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho} b)(\bar{c}\gamma^{\mu\nu\rho} u)$	C
`sbcu::c4`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho} T^A b)(\bar{c}\gamma^{\mu\nu\rho} T^A u)$	C
`sbcu::c5`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R b)(\bar{c} u)$	C
`sbcu::c6`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R T^A b)(\bar{c} T^A u)$	C
`sbcu::c7`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu} b)(\bar{c}\sigma_{\mu\nu} u)$	C
`sbcu::c8`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu} T^A b)(\bar{c}\sigma_{\mu\nu} T^A u)$	C
`sbcu::c9`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{c}\gamma^{\mu\nu\rho\sigma} u)$	C
`sbcu::c10`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A u)$	C
`sbcu::c1'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
`sbcu::c2'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)$	C

WC name	Operator	Type
`sbcu::c3'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u)$	C
`sbcu::c4'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	C
`sbcu::c5'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{c}u)$	C
`sbcu::c6'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{c}T^Au)$	C
`sbcu::c7'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u)$	C
`sbcu::c8'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au)$	C
`sbcu::c9'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	C
`sbcu::c10'`	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	C

`dbcu`

WC name	Operator	Type
`dbcu::c1`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
`dbcu::c2`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^Ab)(\bar{c}\gamma^\mu T^Au)$	C
`dbcu::c3`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u)$	C
`dbcu::c4`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	C
`dbcu::c5`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{c}u)$	C
`dbcu::c6`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{c}T^Au)$	C
`dbcu::c7`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u)$	C
`dbcu::c8`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au)$	C
`dbcu::c9`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	C
`dbcu::c10`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	C
`dbcu::c1'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
`dbcu::c2'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^Ab)(\bar{c}\gamma^\mu T^Au)$	C
`dbcu::c3'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u)$	C
`dbcu::c4'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	C
`dbcu::c5'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{c}u)$	C
`dbcu::c6'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{c}T^Au)$	C
`dbcu::c7'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u)$	C
`dbcu::c8'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au)$	C
`dbcu::c9'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	C
`dbcu::c10'`	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	C

`sb`

WC name	Operator	Type
`b->s::c1`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* (\bar{s}_L \gamma^\mu T^a c_L)(\bar{c}_L \gamma_\mu T^a b_L)$	R
`b->s::c2`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* (\bar{s}_L \gamma^\mu c_L)(\bar{c}_L \gamma_\mu b_L)$	R
`b->s::c3`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* (\bar{s}_L \gamma^\mu b_L) \sum_q (\bar{q} \gamma_\mu q)$	R
`b->s::c4`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* (\bar{s}_L \gamma^\mu T^a b_L) \sum_q (\bar{q} \gamma_\mu T^a q)$	R
`b->s::c5`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* (\bar{s}_L \gamma^{\mu_1}\gamma^{\mu_2}\gamma^{\mu_3} b_L) \sum_q (\bar{q} \gamma_{\mu_1}\gamma_{\mu_2}\gamma_{\mu_3} q)$	R
`b->s::c6`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* (\bar{s}_L \gamma^{\mu_1}\gamma^{\mu_2}\gamma^{\mu_3} T^a b_L) \sum_q (\bar{q} \gamma_{\mu_1}\gamma_{\mu_2}\gamma_{\mu_3} T^a q)$	R
`b->s::Re{c7}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e}{16\pi^2} m_b (\bar{s}_L \sigma_{\mu\nu} b_R) F^{\mu\nu}$	R
`b->s::Im{c7}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e}{16\pi^2} m_b (\bar{s}_L \sigma_{\mu\nu} b_R) F^{\mu\nu}$	R
`b->s::Re{c7'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e}{16\pi^2} m_b (\bar{s}_R \sigma_{\mu\nu} b_L) F^{\mu\nu}$	R
`b->s::Im{c7'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e}{16\pi^2} m_b (\bar{s}_R \sigma_{\mu\nu} b_L) F^{\mu\nu}$	R
`b->s::c8`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{g_s}{16\pi^2} m_b (\bar{s}_L \sigma_{\mu\nu} T^a b_R) G^{a\mu\nu}$	R
`b->s::c8'`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{g_s}{16\pi^2} m_b (\bar{s}_R \sigma_{\mu\nu} T^a b_L) G^{a\mu\nu}$	R
`b->see::Re{c9}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{e} \gamma_\mu e)$	R
`b->see::Im{c9}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{e} \gamma_\mu e)$	R
`b->see::Re{c9'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{e} \gamma_\mu e)$	R
`b->see::Im{c9'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{e} \gamma_\mu e)$	R
`b->see::Re{c10}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{e} \gamma_\mu \gamma_5 e)$	R
`b->see::Im{c10}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{e} \gamma_\mu \gamma_5 e)$	R
`b->see::Re{c10'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{e} \gamma_\mu \gamma_5 e)$	R
`b->see::Im{c10'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{e} \gamma_\mu \gamma_5 e)$	R
`b->see::Re{cS}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{e} e)$	R
`b->see::Im{cS}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{e} e)$	R
`b->see::Re{cS'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{e} e)$	R
`b->see::Im{cS'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{e} e)$	R
`b->see::Re{cP}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{e} \gamma_5 e)$	R
`b->see::Im{cP}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_L b_R)(\bar{e} \gamma_5 e)$	R
`b->see::Re{cP'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{e} \gamma_5 e)$	R
`b->see::Im{cP'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b (\bar{s}_R b_L)(\bar{e} \gamma_5 e)$	R
`b->see::Re{cT}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s} \sigma_{\mu\nu} b)(\bar{e} \sigma_{\mu\nu} e)$	R
`b->see::Im{cT}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s} \sigma_{\mu\nu} b)(\bar{e} \sigma_{\mu\nu} e)$	R
`b->see::Re{cT5}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s} \sigma_{\mu\nu} b)(\bar{e} \sigma_{\mu\nu} \gamma_5 e)$	R
`b->see::Im{cT5}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s} \sigma_{\mu\nu} b)(\bar{e} \sigma_{\mu\nu} \gamma_5 e)$	R
`b->smumu::Re{c9}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\mu} \gamma_\mu \mu)$	R
`b->smumu::Im{c9}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L \gamma^\mu b_L)(\bar{\mu} \gamma_\mu \mu)$	R
`b->smumu::Re{c9'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R \gamma^\mu b_R)(\bar{\mu} \gamma_\mu \mu)$	R

WC name	Operator	Type
`b->smumu::Im{c9'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\mu)$	R
`b->smumu::Re{c10}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	R
`b->smumu::Im{c10}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_L\gamma^\mu b_L)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	R
`b->smumu::Re{c10'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	R
`b->smumu::Im{c10'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} (\bar{s}_R\gamma^\mu b_R)(\bar{\mu}\gamma_\mu\gamma_5\mu)$	R
`b->smumu::Re{cS}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\mu}\mu)$	R
`b->smumu::Im{cS}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\mu}\mu)$	R
`b->smumu::Re{cS'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\mu}\mu)$	R
`b->smumu::Im{cS'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\mu}\mu)$	R
`b->smumu::Re{cP}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\mu}\gamma_5\mu)$	R
`b->smumu::Im{cP}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_L b_R)(\bar{\mu}\gamma_5\mu)$	R
`b->smumu::Re{cP'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\mu}\gamma_5\mu)$	R
`b->smumu::Im{cP'}`	$\frac{4G_F}{\sqrt{2}} V_{tb}V_{ts}^* \frac{e^2}{16\pi^2} m_b(\bar{s}_R b_L)(\bar{\mu}\gamma_5\mu)$	R
`b->smumu::Re{cT}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s}\sigma_{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	R
`b->smumu::Im{cT}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s}\sigma_{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	R
`b->smumu::Re{cT5}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s}\sigma_{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu}\gamma_5\mu)$	R
`b->smumu::Im{cT5}`	$\frac{4G_F}{\sqrt{2}} V_{ub} \frac{e^2}{16\pi^2} (\bar{s}\sigma_{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu}\gamma_5\mu)$	R

`cbenu`

WC name	Operator	Type
`cbenue::cVL`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
`cbenue::cVR`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
`cbenue::cSR`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L b_R)(\bar{e}_R\nu_{eL})$	C
`cbenue::cSL`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R b_L)(\bar{e}_R\nu_{eL})$	C
`cbenue::cT`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R\sigma^{\mu\nu} b_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	C

`cbmunu`

WC name	Operator	Type
`cbmunumu::cVL`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
`cbmunumu::cVR`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
`cbmunumu::cSR`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_L b_R)(\bar{\mu}_R\nu_{\mu L})$	C
`cbmunumu::cSL`	$-\frac{4G_F}{\sqrt{2}} V_{cb}(\bar{c}_R b_L)(\bar{\mu}_R\nu_{\mu L})$	C

WC name	Operator	Type
`cbmunumu::cT`	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu}b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C

`cbtaunu`

WC name	Operator	Type
`cbtaunutau::cVL`	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L\gamma^\tau b_L)(\bar{\tau}_L\gamma_\tau\nu_{\tau L})$	C
`cbtaunutau::cVR`	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\gamma^\tau b_R)(\bar{\tau}_L\gamma_\tau\nu_{\tau L})$	C
`cbtaunutau::cSR`	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_L b_R)(\bar{\tau}_R\nu_{\tau L})$	C
`cbtaunutau::cSL`	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R b_L)(\bar{\tau}_R\nu_{\tau L})$	C
`cbtaunutau::cT`	$-\frac{4G_F}{\sqrt{2}}V_{cb}(\bar{c}_R\sigma^{\mu\nu}b_L)(\bar{\tau}_R\sigma_{\mu\nu}\nu_{\tau L})$	C

`ubenu`

WC name	Operator	Type
`ubenue::cVL`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
`ubenue::cVR`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{e}_L\gamma_\mu\nu_{eL})$	C
`ubenue::cSR`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{e}_R\nu_{eL})$	C
`ubenue::cSL`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{e}_R\nu_{eL})$	C
`ubenue::cT`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu}b_L)(\bar{e}_R\sigma_{\mu\nu}\nu_{eL})$	C

`ubmunu`

WC name	Operator	Type
`ubmunumu::cVL`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\mu b_L)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
`ubmunumu::cVR`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\mu b_R)(\bar{\mu}_L\gamma_\mu\nu_{\mu L})$	C
`ubmunumu::cSR`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L b_R)(\bar{\mu}_R\nu_{\mu L})$	C
`ubmunumu::cSL`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R b_L)(\bar{\mu}_R\nu_{\mu L})$	C
`ubmunumu::cT`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\sigma^{\mu\nu}b_L)(\bar{\mu}_R\sigma_{\mu\nu}\nu_{\mu L})$	C

`ubtaunu`

WC name	Operator	Type
`ubtaunutau::cVL`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_L\gamma^\tau b_L)(\bar{\tau}_L\gamma_\tau\nu_{\tau L})$	C
`ubtaunutau::cVR`	$-\frac{4G_F}{\sqrt{2}}V_{ub}(\bar{u}_R\gamma^\tau b_R)(\bar{\tau}_L\gamma_\tau\nu_{\tau L})$	C

WC name	Operator	Type
`ubtaunutau::cSR`	$-\frac{4G_F}{\sqrt{2}} V_{ub} (\bar{u}_L b_R)(\bar{\tau}_R \nu_{\tau L})$	C
`ubtaunutau::cSL`	$-\frac{4G_F}{\sqrt{2}} V_{ub} (\bar{u}_R b_L)(\bar{\tau}_R \nu_{\tau L})$	C
`ubtaunutau::cT`	$-\frac{4G_F}{\sqrt{2}} V_{ub} (\bar{u}_R \sigma^{\mu\nu} b_L)(\bar{\tau}_R \sigma_{\mu\nu} \nu_{\tau L})$	C