Basis `flavio` (EFT `WET-4`)

Sectors

The effective Lagrangian is defined as

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

`sdsd`

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

`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
`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

WC name	Operator	Type
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

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

WC name	Operator	Type
`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

`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

WC name	Operator	Type
`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`	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Ls_R)(\bar{\mu}_R\nu_{\mu L})$	C
`CSL_sumunumu`	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{\mu}_R\nu_{\mu L})$	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`	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Ls_R)(\bar{\mu}_R\nu_{\tau L})$	C
`CSL_sumunutau`	$-\frac{4G_F}{\sqrt{2}}V_{us}(\bar{u}_Rs_L)(\bar{\mu}_R\nu_{\tau L})$	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`	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Ls_R)(\bar{\mu}_R\nu_{eL})$	C
`CSL_scmunue`	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{\mu}_R\nu_{eL})$	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`	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Ls_R)(\bar{\mu}_R\nu_{\mu L})$	C
`CSL_scmunumu`	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{\mu}_R\nu_{\mu L})$	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`	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Ls_R)(\bar{\mu}_R\nu_{\tau L})$	C
`CSL_scmunutau`	$-\frac{4G_F}{\sqrt{2}}V_{cs}(\bar{c}_Rs_L)(\bar{\mu}_R\nu_{\tau L})$	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

WC name	Operator	Type
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

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