

Basis JMS (EFT WET-3)

Variant of the basis suggested by Jenkins, Manohar, and Stoffer (arXiv:1709.04486) with only three dynamical quark flavors.

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 |
|-------------|--|------|
| VddLL_1212 | $(\bar{d}_L \gamma^\mu s_L)(\bar{d}_L \gamma_\mu s_L)$ | C |
| VddRR_1212 | $(\bar{d}_R \gamma^\mu s_R)(\bar{d}_R \gamma_\mu s_R)$ | C |
| V1ddLR_1212 | $(\bar{d}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu s_R)$ | C |
| V8ddLR_1212 | $(\bar{d}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A s_R)$ | C |
| S1ddRR_1212 | $(\bar{d}_L s_R)(\bar{d}_L s_R)$ | C |
| S1ddRR_2121 | $(\bar{s}_L d_R)(\bar{s}_L d_R)$ | C |
| S8ddRR_1212 | $(\bar{d}_L T^A s_R)(\bar{d}_L T^A s_R)$ | C |
| S8ddRR_2121 | $(\bar{s}_L T^A d_R)(\bar{s}_L T^A d_R)$ | C |

sd

| WC name | Operator | Type |
|-------------|--|------|
| dgamma_12 | $\bar{d}_L \sigma^{\mu\nu} s_R F_{\mu\nu}$ | C |
| dgamma_21 | $\bar{s}_L \sigma^{\mu\nu} d_R F_{\mu\nu}$ | C |
| dG_12 | $\bar{d}_L \sigma^{\mu\nu} T^A s_R G_{\mu\nu}^A$ | C |
| dG_21 | $\bar{s}_L \sigma^{\mu\nu} T^A d_R G_{\mu\nu}^A$ | C |
| VedLL_1112 | $(\bar{e}_L \gamma^\mu e_L)(\bar{d}_L \gamma_\mu s_L)$ | C |
| VedLL_2212 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{d}_L \gamma_\mu s_L)$ | C |
| VddLL_1112 | $(\bar{d}_L \gamma^\mu d_L)(\bar{d}_L \gamma_\mu s_L)$ | C |
| VddLL_1222 | $(\bar{d}_L \gamma^\mu s_L)(\bar{s}_L \gamma_\mu s_L)$ | C |
| V1udLL_1112 | $(\bar{u}_L \gamma^\mu u_L)(\bar{d}_L \gamma_\mu s_L)$ | C |
| V8udLL_1112 | $(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_L \gamma_\mu T^A s_L)$ | C |
| VedRR_1112 | $(\bar{e}_R \gamma^\mu e_R)(\bar{d}_R \gamma_\mu s_R)$ | C |
| VedRR_2212 | $(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{d}_R \gamma_\mu s_R)$ | C |
| VddRR_1112 | $(\bar{d}_R \gamma^\mu d_R)(\bar{d}_R \gamma_\mu s_R)$ | C |

| WC name | Operator | Type |
|---------------|--|------|
| VddRR_1222 | $(\bar{d}_R \gamma^\mu s_R)(\bar{s}_R \gamma_\mu s_R)$ | C |
| V1udRR_1112 | $(\bar{u}_R \gamma^\mu u_R)(\bar{d}_R \gamma_\mu s_R)$ | C |
| V8udRR_1112 | $(\bar{u}_R \gamma^\mu T^A u_R)(\bar{d}_R \gamma_\mu T^A s_R)$ | C |
| VedLR_1112 | $(\bar{e}_L \gamma^\mu e_L)(\bar{d}_R \gamma_\mu s_R)$ | C |
| VedLR_2212 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{d}_R \gamma_\mu s_R)$ | C |
| VdeLR_1211 | $(\bar{d}_L \gamma^\mu s_L)(\bar{e}_R \gamma_\mu e_R)$ | C |
| VdeLR_1222 | $(\bar{d}_L \gamma^\mu s_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ | C |
| V1udLR_1112 | $(\bar{u}_L \gamma^\mu u_L)(\bar{d}_R \gamma_\mu s_R)$ | C |
| V8udLR_1112 | $(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A s_R)$ | C |
| V1duLR_1211 | $(\bar{d}_L \gamma^\mu s_L)(\bar{u}_R \gamma_\mu u_R)$ | C |
| V8duLR_1211 | $(\bar{d}_L \gamma^\mu T^A s_L)(\bar{u}_R \gamma_\mu T^A u_R)$ | C |
| V1ddLR_1112 | $(\bar{d}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu s_R)$ | C |
| V1ddLR_1211 | $(\bar{d}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu d_R)$ | C |
| V1ddLR_1222 | $(\bar{d}_L \gamma^\mu s_L)(\bar{s}_R \gamma_\mu s_R)$ | C |
| V1ddLR_2212 | $(\bar{s}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu s_R)$ | C |
| V8ddLR_1112 | $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A s_R)$ | C |
| V8ddLR_1211 | $(\bar{d}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A d_R)$ | C |
| V8ddLR_1222 | $(\bar{d}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A s_R)$ | C |
| V8ddLR_2212 | $(\bar{s}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A s_R)$ | C |
| V1udduLR_1121 | $(\bar{u}_L \gamma^\mu d_L)(\bar{s}_R \gamma_\mu u_R)$ | C |
| V1udduLR_1211 | $(\bar{u}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu u_R)$ | C |
| V8udduLR_1121 | $(\bar{u}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A u_R)$ | C |
| V8udduLR_1211 | $(\bar{u}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A u_R)$ | C |
| SedRL_1112 | $(\bar{e}_L e_R)(\bar{d}_R s_L)$ | C |
| SedRL_1121 | $(\bar{e}_L e_R)(\bar{s}_R d_L)$ | C |
| SedRL_2212 | $(\bar{\mu}_L \mu_R)(\bar{d}_R s_L)$ | C |
| SedRL_2221 | $(\bar{\mu}_L \mu_R)(\bar{s}_R d_L)$ | C |
| SedRR_1112 | $(\bar{e}_L e_R)(\bar{d}_L s_R)$ | C |
| SedRR_1121 | $(\bar{e}_L e_R)(\bar{s}_L d_R)$ | C |
| SedRR_2212 | $(\bar{\mu}_L \mu_R)(\bar{d}_L s_R)$ | C |
| SedRR_2221 | $(\bar{\mu}_L \mu_R)(\bar{s}_L d_R)$ | C |
| TedRR_1112 | $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} s_R)$ | C |
| TedRR_1121 | $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} d_R)$ | C |
| TedRR_2212 | $(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{d}_L \sigma_{\mu\nu} s_R)$ | C |
| TedRR_2221 | $(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{s}_L \sigma_{\mu\nu} d_R)$ | C |
| S1udRR_1112 | $(\bar{u}_L u_R)(\bar{d}_L s_R)$ | C |
| S1udRR_1121 | $(\bar{u}_L u_R)(\bar{s}_L d_R)$ | C |
| S8udRR_1112 | $(\bar{u}_L T^A u_R)(\bar{d}_L T^A s_R)$ | C |
| S8udRR_1121 | $(\bar{u}_L T^A u_R)(\bar{s}_L T^A d_R)$ | C |
| S1ddRR_1112 | $(\bar{d}_L d_R)(\bar{d}_L s_R)$ | C |
| S1ddRR_1121 | $(\bar{d}_L d_R)(\bar{s}_L d_R)$ | C |
| S1ddRR_1222 | $(\bar{d}_L s_R)(\bar{s}_L s_R)$ | C |

| WC name | Operator | Type |
|---------------|--|------|
| S1ddRR_2122 | $(\bar{s}_L d_R)(\bar{s}_L s_R)$ | C |
| S8ddRR_1112 | $(\bar{d}_L T^A d_R)(\bar{d}_L T^A s_R)$ | C |
| S8ddRR_1121 | $(\bar{d}_L T^A d_R)(\bar{s}_L T^A d_R)$ | C |
| S8ddRR_1222 | $(\bar{d}_L T^A s_R)(\bar{s}_L T^A s_R)$ | C |
| S8ddRR_2122 | $(\bar{s}_L T^A d_R)(\bar{s}_L T^A s_R)$ | C |
| S1udduRR_1121 | $(\bar{u}_L d_R)(\bar{s}_L u_R)$ | C |
| S1udduRR_1211 | $(\bar{u}_L s_R)(\bar{d}_L u_R)$ | C |
| S8udduRR_1121 | $(\bar{u}_L T^A d_R)(\bar{s}_L T^A u_R)$ | C |
| S8udduRR_1211 | $(\bar{u}_L T^A s_R)(\bar{d}_L T^A u_R)$ | C |

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| WC name | Operator | Type |
|------------|--|------|
| VedLL_1221 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{s}_L \gamma_\mu d_L)$ | C |
| VedRR_1221 | $(\bar{e}_R \gamma^\mu \mu_R)(\bar{s}_R \gamma_\mu d_R)$ | C |
| VedLR_1221 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{s}_R \gamma_\mu d_R)$ | C |
| VdeLR_1221 | $(\bar{d}_L \gamma^\mu s_L)(\bar{\mu}_R \gamma_\mu e_R)$ | C |
| SedRL_1221 | $(\bar{e}_L \mu_R)(\bar{s}_R d_L)$ | C |
| SedRL_2112 | $(\bar{\mu}_L e_R)(\bar{d}_R s_L)$ | C |
| SedRR_1221 | $(\bar{e}_L \mu_R)(\bar{s}_L d_R)$ | C |
| SedRR_2112 | $(\bar{\mu}_L e_R)(\bar{d}_L s_R)$ | C |
| TedRR_1221 | $(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{s}_L \sigma_{\mu\nu} d_R)$ | C |
| TedRR_2112 | $(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} s_R)$ | C |

sdmue

| WC name | Operator | Type |
|------------|--|------|
| VedLL_1212 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{d}_L \gamma_\mu s_L)$ | C |
| VedRR_1212 | $(\bar{e}_R \gamma^\mu \mu_R)(\bar{d}_R \gamma_\mu s_R)$ | C |
| VedLR_1212 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{d}_R \gamma_\mu s_R)$ | C |
| VdeLR_1212 | $(\bar{d}_L \gamma^\mu s_L)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| SedRL_1212 | $(\bar{e}_L \mu_R)(\bar{d}_R s_L)$ | C |
| SedRL_2121 | $(\bar{\mu}_L e_R)(\bar{s}_R d_L)$ | C |
| SedRR_1212 | $(\bar{e}_L \mu_R)(\bar{d}_L s_R)$ | C |
| SedRR_2121 | $(\bar{\mu}_L e_R)(\bar{s}_L d_R)$ | C |
| TedRR_1212 | $(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{d}_L \sigma_{\mu\nu} s_R)$ | C |
| TedRR_2121 | $(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} d_R)$ | C |

mue

| WC name | Operator | Type |
|------------|--|------|
| egamma_12 | $\bar{e}_L \sigma^{\mu\nu} \mu_R F_{\mu\nu}$ | C |
| egamma_21 | $\bar{\mu}_L \sigma^{\mu\nu} e_R F_{\mu\nu}$ | C |
| VeeLL_1112 | $(\bar{e}_L \gamma^\mu e_L)(\bar{e}_L \gamma_\mu \mu_L)$ | C |
| VeeLL_1222 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_L \gamma_\mu \mu_L)$ | C |
| VeuLL_1211 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_L \gamma_\mu u_L)$ | C |
| VedLL_1211 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{d}_L \gamma_\mu d_L)$ | C |
| VedLL_1222 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{s}_L \gamma_\mu s_L)$ | C |
| VeeRR_1112 | $(\bar{e}_R \gamma^\mu e_R)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| VeeRR_1222 | $(\bar{e}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \mu_R)$ | C |
| VeuRR_1211 | $(\bar{e}_R \gamma^\mu \mu_R)(\bar{u}_R \gamma_\mu u_R)$ | C |
| VedRR_1211 | $(\bar{e}_R \gamma^\mu \mu_R)(\bar{d}_R \gamma_\mu d_R)$ | C |
| VedRR_1222 | $(\bar{e}_R \gamma^\mu \mu_R)(\bar{s}_R \gamma_\mu s_R)$ | C |
| VeeLR_1112 | $(\bar{e}_L \gamma^\mu e_L)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| VeeLR_1211 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu e_R)$ | C |
| VeeLR_1222 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ | C |
| VeeLR_2212 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| VeuLR_1211 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_R \gamma_\mu u_R)$ | C |
| VedLR_1211 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{d}_R \gamma_\mu d_R)$ | C |
| VedLR_1222 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{s}_R \gamma_\mu s_R)$ | C |
| VueLR_1112 | $(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| VdeLR_1112 | $(\bar{d}_L \gamma^\mu d_L)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| VdeLR_2212 | $(\bar{s}_L \gamma^\mu s_L)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| SeuRL_1211 | $(\bar{e}_L \mu_R)(\bar{u}_R u_L)$ | C |
| SeuRL_2111 | $(\bar{\mu}_L e_R)(\bar{u}_R u_L)$ | C |
| SedRL_1211 | $(\bar{e}_L \mu_R)(\bar{d}_R d_L)$ | C |
| SedRL_1222 | $(\bar{e}_L \mu_R)(\bar{s}_R s_L)$ | C |
| SedRL_2111 | $(\bar{\mu}_L e_R)(\bar{d}_R d_L)$ | C |
| SedRL_2122 | $(\bar{\mu}_L e_R)(\bar{s}_R s_L)$ | C |
| SeeRR_1112 | $(\bar{e}_L e_R)(\bar{e}_L \mu_R)$ | C |
| SeeRR_1121 | $(\bar{e}_L e_R)(\bar{\mu}_L e_R)$ | C |
| SeeRR_1222 | $(\bar{e}_L \mu_R)(\bar{\mu}_L \mu_R)$ | C |
| SeeRR_2122 | $(\bar{\mu}_L e_R)(\bar{\mu}_L \mu_R)$ | C |
| SeuRR_1211 | $(\bar{e}_L \mu_R)(\bar{u}_L u_R)$ | C |
| SeuRR_2111 | $(\bar{\mu}_L e_R)(\bar{u}_L u_R)$ | C |
| TeuRR_1211 | $(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$ | C |
| TeuRR_2111 | $(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$ | C |
| SedRR_1211 | $(\bar{e}_L \mu_R)(\bar{d}_L d_R)$ | C |
| SedRR_1222 | $(\bar{e}_L \mu_R)(\bar{s}_L s_R)$ | C |
| SedRR_2111 | $(\bar{\mu}_L e_R)(\bar{d}_L d_R)$ | C |
| SedRR_2122 | $(\bar{\mu}_L e_R)(\bar{s}_L s_R)$ | C |
| TedRR_1211 | $(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$ | C |

| WC name | Operator | Type |
|------------|--|------|
| TedRR_1222 | $(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$ | C |
| TedRR_2111 | $(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$ | C |
| TedRR_2122 | $(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$ | C |

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| WC name | Operator | Type |
|------------|--|------|
| VeeLL_1212 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_L \gamma_\mu \mu_L)$ | C |
| VeeRR_1212 | $(\bar{e}_R \gamma^\mu \mu_R)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| VeeLR_1212 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \mu_R)$ | C |
| SeeRR_1212 | $(\bar{e}_L \mu_R)(\bar{e}_L \mu_R)$ | C |
| SeeRR_2121 | $(\bar{\mu}_L e_R)(\bar{\mu}_L e_R)$ | C |

nunununu

| WC name | Operator | Type |
|--------------|--|------|
| VnunuLL_1111 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{\nu}_{eL} \gamma_\mu \nu_{eL})$ | R |
| VnunuLL_1122 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\mu L})$ | R |
| VnunuLL_1133 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\tau L})$ | R |
| VnunuLL_2222 | $(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\mu L})$ | R |
| VnunuLL_2233 | $(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\tau L})$ | R |
| VnunuLL_3333 | $(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\tau L})$ | R |
| VnunuLL_1112 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{\nu}_{eL} \gamma_\mu \nu_{\mu L})$ | C |
| VnunuLL_1222 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\mu L})$ | C |
| VnunuLL_1233 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_1113 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{\nu}_{eL} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_1223 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_1333 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_1123 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_2223 | $(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_2333 | $(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_1232 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\mu L})$ | C |
| VnunuLL_1323 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_1213 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{eL} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_1212 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{\nu}_{eL} \gamma_\mu \nu_{\mu L})$ | C |
| VnunuLL_1313 | $(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{\nu}_{eL} \gamma_\mu \nu_{\tau L})$ | C |
| VnunuLL_2323 | $(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{\nu}_{\mu L} \gamma_\mu \nu_{\tau L})$ | C |

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| WC name | Operator | Type |
|-------------|--|------|
| VnueLL_1112 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{e}_L\gamma_\mu\mu_L)$ | C |
| VnueLL_2212 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{e}_L\gamma_\mu\mu_L)$ | C |
| VnueLL_3312 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{e}_L\gamma_\mu\mu_L)$ | C |
| VnueLR_1112 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{e}_R\gamma_\mu\mu_R)$ | C |
| VnueLR_2212 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{e}_R\gamma_\mu\mu_R)$ | C |
| VnueLR_3312 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{e}_R\gamma_\mu\mu_R)$ | C |
| VnueLL_1212 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{e}_L\gamma_\mu\mu_L)$ | C |
| VnueLR_1212 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{e}_R\gamma_\mu\mu_R)$ | C |
| VnueLL_1312 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{e}_L\gamma_\mu\mu_L)$ | C |
| VnueLR_1312 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{e}_R\gamma_\mu\mu_R)$ | C |
| VnueLL_2321 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{\mu}_L\gamma_\mu e_L)$ | C |
| VnueLR_2321 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{\mu}_R\gamma_\mu e_R)$ | C |
| VnueLL_1221 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\mu}_L\gamma_\mu e_L)$ | C |
| VnueLR_1221 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\mu}_R\gamma_\mu e_R)$ | C |
| VnueLL_1321 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{\mu}_L\gamma_\mu e_L)$ | C |
| VnueLR_1321 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{\mu}_R\gamma_\mu e_R)$ | C |
| VnueLL_2312 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{e}_L\gamma_\mu\mu_L)$ | C |
| VnueLR_2312 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{e}_R\gamma_\mu\mu_R)$ | C |

dF=0

| WC name | Operator | Type |
|------------|--|------|
| egamma_11 | $\bar{e}_L\sigma^{\mu\nu}e_R F_{\mu\nu}$ | C |
| egamma_22 | $\bar{\mu}_L\sigma^{\mu\nu}\mu_R F_{\mu\nu}$ | C |
| ugamma_11 | $\bar{u}_L\sigma^{\mu\nu}u_R F_{\mu\nu}$ | C |
| dgamma_11 | $\bar{d}_L\sigma^{\mu\nu}d_R F_{\mu\nu}$ | C |
| dgamma_22 | $\bar{s}_L\sigma^{\mu\nu}s_R F_{\mu\nu}$ | C |
| uG_11 | $\bar{u}_L\sigma^{\mu\nu}T^A u_R G_{\mu\nu}^A$ | C |
| dG_11 | $\bar{d}_L\sigma^{\mu\nu}T^A d_R G_{\mu\nu}^A$ | C |
| dG_22 | $\bar{s}_L\sigma^{\mu\nu}T^A s_R G_{\mu\nu}^A$ | C |
| G | $f^{ABC}G_\mu^{A\nu}G_\nu^{B\rho}G_\rho^{C\mu}$ | R |
| Gtilde | $f^{ABC}\tilde{G}_\mu^{A\nu}G_\nu^{B\rho}G_\rho^{C\mu}$ | R |
| VeeLL_1111 | $(\bar{e}_L\gamma^\mu e_L)(\bar{e}_L\gamma_\mu e_L)$ | R |
| VeeLL_1122 | $(\bar{e}_L\gamma^\mu e_L)(\bar{\mu}_L\gamma_\mu\mu_L)$ | R |
| VeeLL_2222 | $(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{\mu}_L\gamma_\mu\mu_L)$ | R |
| VeuLL_1111 | $(\bar{e}_L\gamma^\mu e_L)(\bar{u}_L\gamma_\mu u_L)$ | R |
| VeuLL_2211 | $(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{u}_L\gamma_\mu u_L)$ | R |
| VedLL_1111 | $(\bar{e}_L\gamma^\mu e_L)(\bar{d}_L\gamma_\mu d_L)$ | R |
| VedLL_1122 | $(\bar{e}_L\gamma^\mu e_L)(\bar{s}_L\gamma_\mu s_L)$ | R |
| VedLL_2211 | $(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{d}_L\gamma_\mu d_L)$ | R |
| VedLL_2222 | $(\bar{\mu}_L\gamma^\mu\mu_L)(\bar{s}_L\gamma_\mu s_L)$ | R |
| VuuLL_1111 | $(\bar{u}_L\gamma^\mu u_L)(\bar{u}_L\gamma_\mu u_L)$ | R |

| WC name | Operator | Type |
|-------------|--|------|
| VddLL_1111 | $(\bar{d}_L \gamma^\mu d_L)(\bar{d}_L \gamma_\mu d_L)$ | R |
| VddLL_1122 | $(\bar{d}_L \gamma^\mu d_L)(\bar{s}_L \gamma_\mu s_L)$ | R |
| VddLL_1221 | $(\bar{d}_L \gamma^\mu s_L)(\bar{s}_L \gamma_\mu d_L)$ | R |
| VddLL_2222 | $(\bar{s}_L \gamma^\mu s_L)(\bar{s}_L \gamma_\mu s_L)$ | R |
| V1udLL_1111 | $(\bar{u}_L \gamma^\mu u_L)(\bar{d}_L \gamma_\mu d_L)$ | R |
| V1udLL_1122 | $(\bar{u}_L \gamma^\mu u_L)(\bar{s}_L \gamma_\mu s_L)$ | R |
| V8udLL_1111 | $(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_L \gamma_\mu T^A d_L)$ | R |
| V8udLL_1122 | $(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_L \gamma_\mu T^A s_L)$ | R |
| VeeRR_1111 | $(\bar{e}_R \gamma^\mu e_R)(\bar{e}_R \gamma_\mu e_R)$ | R |
| VeeRR_1122 | $(\bar{e}_R \gamma^\mu e_R)(\bar{\mu}_R \gamma_\mu \mu_R)$ | R |
| VeeRR_2222 | $(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \mu_R)$ | R |
| VeRR_1111 | $(\bar{e}_R \gamma^\mu e_R)(\bar{u}_R \gamma_\mu u_R)$ | R |
| VeRR_2211 | $(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{u}_R \gamma_\mu u_R)$ | R |
| VedRR_1111 | $(\bar{e}_R \gamma^\mu e_R)(\bar{d}_R \gamma_\mu d_R)$ | R |
| VedRR_1122 | $(\bar{e}_R \gamma^\mu e_R)(\bar{s}_R \gamma_\mu s_R)$ | R |
| VedRR_2211 | $(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{d}_R \gamma_\mu d_R)$ | R |
| VedRR_2222 | $(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{s}_R \gamma_\mu s_R)$ | R |
| VuuRR_1111 | $(\bar{u}_R \gamma^\mu u_R)(\bar{u}_R \gamma_\mu u_R)$ | R |
| VddRR_1111 | $(\bar{d}_R \gamma^\mu d_R)(\bar{d}_R \gamma_\mu d_R)$ | R |
| VddRR_1122 | $(\bar{d}_R \gamma^\mu d_R)(\bar{s}_R \gamma_\mu s_R)$ | R |
| VddRR_1221 | $(\bar{d}_R \gamma^\mu s_R)(\bar{s}_R \gamma_\mu d_R)$ | R |
| VddRR_2222 | $(\bar{s}_R \gamma^\mu s_R)(\bar{s}_R \gamma_\mu s_R)$ | R |
| V1udRR_1111 | $(\bar{u}_R \gamma^\mu u_R)(\bar{d}_R \gamma_\mu d_R)$ | R |
| V1udRR_1122 | $(\bar{u}_R \gamma^\mu u_R)(\bar{s}_R \gamma_\mu s_R)$ | R |
| V8udRR_1111 | $(\bar{u}_R \gamma^\mu T^A u_R)(\bar{d}_R \gamma_\mu T^A d_R)$ | R |
| V8udRR_1122 | $(\bar{u}_R \gamma^\mu T^A u_R)(\bar{s}_R \gamma_\mu T^A s_R)$ | R |
| VeeLR_1111 | $(\bar{e}_L \gamma^\mu e_L)(\bar{e}_R \gamma_\mu e_R)$ | R |
| VeeLR_1122 | $(\bar{e}_L \gamma^\mu e_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ | R |
| VeeLR_1221 | $(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu e_R)$ | C |
| VeeLR_2211 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu e_R)$ | R |
| VeeLR_2222 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ | R |
| VeLR_1111 | $(\bar{e}_L \gamma^\mu e_L)(\bar{u}_R \gamma_\mu u_R)$ | R |
| VeLR_2211 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{u}_R \gamma_\mu u_R)$ | R |
| VedLR_1111 | $(\bar{e}_L \gamma^\mu e_L)(\bar{d}_R \gamma_\mu d_R)$ | R |
| VedLR_1122 | $(\bar{e}_L \gamma^\mu e_L)(\bar{s}_R \gamma_\mu s_R)$ | R |
| VedLR_2211 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{d}_R \gamma_\mu d_R)$ | R |
| VedLR_2222 | $(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{s}_R \gamma_\mu s_R)$ | R |
| VueLR_1111 | $(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu e_R)$ | R |
| VueLR_1122 | $(\bar{u}_L \gamma^\mu u_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ | R |
| VdeLR_1111 | $(\bar{d}_L \gamma^\mu d_L)(\bar{e}_R \gamma_\mu e_R)$ | R |
| VdeLR_1122 | $(\bar{d}_L \gamma^\mu d_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ | R |
| VdeLR_2211 | $(\bar{s}_L \gamma^\mu s_L)(\bar{e}_R \gamma_\mu e_R)$ | R |
| VdeLR_2222 | $(\bar{s}_L \gamma^\mu s_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ | R |

| WC name | Operator | Type |
|---------------|--|------|
| V1uuLR_1111 | $(\bar{u}_L \gamma^\mu u_L)(\bar{u}_R \gamma_\mu u_R)$ | R |
| V8uuLR_1111 | $(\bar{u}_L \gamma^\mu T^A u_L)(\bar{u}_R \gamma_\mu T^A u_R)$ | R |
| V1udLR_1111 | $(\bar{u}_L \gamma^\mu u_L)(\bar{d}_R \gamma_\mu d_R)$ | R |
| V1udLR_1122 | $(\bar{u}_L \gamma^\mu u_L)(\bar{s}_R \gamma_\mu s_R)$ | R |
| V8udLR_1111 | $(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A d_R)$ | R |
| V8udLR_1122 | $(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_R \gamma_\mu T^A s_R)$ | R |
| V1duLR_1111 | $(\bar{d}_L \gamma^\mu d_L)(\bar{u}_R \gamma_\mu u_R)$ | R |
| V1duLR_2211 | $(\bar{s}_L \gamma^\mu s_L)(\bar{u}_R \gamma_\mu u_R)$ | R |
| V8duLR_1111 | $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{u}_R \gamma_\mu T^A u_R)$ | R |
| V8duLR_2211 | $(\bar{s}_L \gamma^\mu T^A s_L)(\bar{u}_R \gamma_\mu T^A u_R)$ | R |
| V1ddLR_1111 | $(\bar{d}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu d_R)$ | R |
| V1ddLR_1122 | $(\bar{d}_L \gamma^\mu d_L)(\bar{s}_R \gamma_\mu s_R)$ | R |
| V1ddLR_1221 | $(\bar{d}_L \gamma^\mu s_L)(\bar{s}_R \gamma_\mu d_R)$ | C |
| V1ddLR_2211 | $(\bar{s}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu d_R)$ | R |
| V1ddLR_2222 | $(\bar{s}_L \gamma^\mu s_L)(\bar{s}_R \gamma_\mu s_R)$ | R |
| V8ddLR_1111 | $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A d_R)$ | R |
| V8ddLR_1122 | $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A s_R)$ | R |
| V8ddLR_1221 | $(\bar{d}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A d_R)$ | C |
| V8ddLR_2211 | $(\bar{s}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A d_R)$ | R |
| V8ddLR_2222 | $(\bar{s}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A s_R)$ | R |
| V1udduLR_1111 | $(\bar{u}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu u_R)$ | C |
| V1udduLR_1221 | $(\bar{u}_L \gamma^\mu s_L)(\bar{s}_R \gamma_\mu u_R)$ | C |
| V8udduLR_1111 | $(\bar{u}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A u_R)$ | C |
| V8udduLR_1221 | $(\bar{u}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A u_R)$ | C |
| SeuRL_1111 | $(\bar{e}_L e_R)(\bar{u}_R u_L)$ | C |
| SeuRL_2211 | $(\bar{\mu}_L \mu_R)(\bar{u}_R u_L)$ | C |
| SedRL_1111 | $(\bar{e}_L e_R)(\bar{d}_R d_L)$ | C |
| SedRL_1122 | $(\bar{e}_L e_R)(\bar{s}_R s_L)$ | C |
| SedRL_2211 | $(\bar{\mu}_L \mu_R)(\bar{d}_R d_L)$ | C |
| SedRL_2222 | $(\bar{\mu}_L \mu_R)(\bar{s}_R s_L)$ | C |
| SeeRR_1111 | $(\bar{e}_L e_R)(\bar{e}_L e_R)$ | C |
| SeeRR_1122 | $(\bar{e}_L e_R)(\bar{\mu}_L \mu_R)$ | C |
| SeeRR_1221 | $(\bar{e}_L \mu_R)(\bar{\mu}_L e_R)$ | C |
| SeeRR_2222 | $(\bar{\mu}_L \mu_R)(\bar{\mu}_L \mu_R)$ | C |
| SeuRR_1111 | $(\bar{e}_L e_R)(\bar{u}_L u_R)$ | C |
| SeuRR_2211 | $(\bar{\mu}_L \mu_R)(\bar{u}_L u_R)$ | C |
| TeuRR_1111 | $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$ | C |
| TeuRR_2211 | $(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$ | C |
| SedRR_1111 | $(\bar{e}_L e_R)(\bar{d}_L d_R)$ | C |
| SedRR_1122 | $(\bar{e}_L e_R)(\bar{s}_L s_R)$ | C |
| SedRR_2211 | $(\bar{\mu}_L \mu_R)(\bar{d}_L d_R)$ | C |
| SedRR_2222 | $(\bar{\mu}_L \mu_R)(\bar{s}_L s_R)$ | C |
| TedRR_1111 | $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$ | C |

| WC name | Operator | Type |
|---------------|--|------|
| TedRR_1122 | $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$ | C |
| TedRR_2211 | $(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$ | C |
| TedRR_2222 | $(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$ | C |
| S1uuRR_1111 | $(\bar{u}_L u_R)(\bar{u}_L u_R)$ | C |
| S8uuRR_1111 | $(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$ | C |
| S1udRR_1111 | $(\bar{u}_L u_R)(\bar{d}_L d_R)$ | C |
| S1udRR_1122 | $(\bar{u}_L u_R)(\bar{s}_L s_R)$ | C |
| S8udRR_1111 | $(\bar{u}_L T^A u_R)(\bar{d}_L T^A d_R)$ | C |
| S8udRR_1122 | $(\bar{u}_L T^A u_R)(\bar{s}_L T^A s_R)$ | C |
| S1ddRR_1111 | $(\bar{d}_L d_R)(\bar{d}_L d_R)$ | C |
| S1ddRR_1122 | $(\bar{d}_L d_R)(\bar{s}_L s_R)$ | C |
| S1ddRR_1221 | $(\bar{d}_L s_R)(\bar{s}_L d_R)$ | C |
| S1ddRR_2222 | $(\bar{s}_L s_R)(\bar{s}_L s_R)$ | C |
| S8ddRR_1111 | $(\bar{d}_L T^A d_R)(\bar{d}_L T^A d_R)$ | C |
| S8ddRR_1122 | $(\bar{d}_L T^A d_R)(\bar{s}_L T^A s_R)$ | C |
| S8ddRR_1221 | $(\bar{d}_L T^A s_R)(\bar{s}_L T^A d_R)$ | C |
| S8ddRR_2222 | $(\bar{s}_L T^A s_R)(\bar{s}_L T^A s_R)$ | C |
| S1udduRR_1111 | $(\bar{u}_L d_R)(\bar{d}_L u_R)$ | C |
| S1udduRR_1221 | $(\bar{u}_L s_R)(\bar{s}_L u_R)$ | C |
| S8udduRR_1111 | $(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$ | C |
| S8udduRR_1221 | $(\bar{u}_L T^A s_R)(\bar{s}_L T^A u_R)$ | C |

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| WC name | Operator | Type |
|---------------|---|------|
| VnueduLL_1121 | $(\bar{\nu}_{eL} \gamma^\mu e_L)(\bar{s}_L \gamma_\mu u_L)$ | C |
| VnueduLR_1121 | $(\bar{\nu}_{eL} \gamma^\mu e_L)(\bar{s}_R \gamma_\mu u_R)$ | C |
| SnueduRL_1121 | $(\bar{\nu}_{eL} e_R)(\bar{s}_R u_L)$ | C |
| SnueduRR_1121 | $(\bar{\nu}_{eL} e_R)(\bar{s}_L u_R)$ | C |
| TnueduRR_1121 | $(\bar{\nu}_{eL} \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} u_R)$ | C |
| VnueduLL_2121 | $(\bar{\nu}_{\mu L} \gamma^\mu e_L)(\bar{s}_L \gamma_\mu u_L)$ | C |
| VnueduLR_2121 | $(\bar{\nu}_{\mu L} \gamma^\mu e_L)(\bar{s}_R \gamma_\mu u_R)$ | C |
| SnueduRL_2121 | $(\bar{\nu}_{\mu L} e_R)(\bar{s}_R u_L)$ | C |
| SnueduRR_2121 | $(\bar{\nu}_{\mu L} e_R)(\bar{s}_L u_R)$ | C |
| TnueduRR_2121 | $(\bar{\nu}_{\mu L} \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} u_R)$ | C |
| VnueduLL_3121 | $(\bar{\nu}_{\tau L} \gamma^\mu e_L)(\bar{s}_L \gamma_\mu u_L)$ | C |
| VnueduLR_3121 | $(\bar{\nu}_{\tau L} \gamma^\mu e_L)(\bar{s}_R \gamma_\mu u_R)$ | C |
| SnueduRL_3121 | $(\bar{\nu}_{\tau L} e_R)(\bar{s}_R u_L)$ | C |
| SnueduRR_3121 | $(\bar{\nu}_{\tau L} e_R)(\bar{s}_L u_R)$ | C |
| TnueduRR_3121 | $(\bar{\nu}_{\tau L} \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} u_R)$ | C |

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| WC name | Operator | Type |
|---------------|---|------|
| VnueduLL_1221 | $(\bar{\nu}_{eL}\gamma^\mu\mu_L)(\bar{s}_L\gamma_\mu u_L)$ | C |
| VnueduLR_1221 | $(\bar{\nu}_{eL}\gamma^\mu\mu_L)(\bar{s}_R\gamma_\mu u_R)$ | C |
| SnueduRL_1221 | $(\bar{\nu}_{eL}\mu_R)(\bar{s}_R u_L)$ | C |
| SnueduRR_1221 | $(\bar{\nu}_{eL}\mu_R)(\bar{s}_L u_R)$ | C |
| TnueduRR_1221 | $(\bar{\nu}_{eL}\sigma^{\mu\nu}\mu_R)(\bar{s}_L\sigma_{\mu\nu}u_R)$ | C |
| VnueduLL_2221 | $(\bar{\nu}_{\mu L}\gamma^\mu\mu_L)(\bar{s}_L\gamma_\mu u_L)$ | C |
| VnueduLR_2221 | $(\bar{\nu}_{\mu L}\gamma^\mu\mu_L)(\bar{s}_R\gamma_\mu u_R)$ | C |
| SnueduRL_2221 | $(\bar{\nu}_{\mu L}\mu_R)(\bar{s}_R u_L)$ | C |
| SnueduRR_2221 | $(\bar{\nu}_{\mu L}\mu_R)(\bar{s}_L u_R)$ | C |
| TnueduRR_2221 | $(\bar{\nu}_{\mu L}\sigma^{\mu\nu}\mu_R)(\bar{s}_L\sigma_{\mu\nu}u_R)$ | C |
| VnueduLL_3221 | $(\bar{\nu}_{\tau L}\gamma^\mu\mu_L)(\bar{s}_L\gamma_\mu u_L)$ | C |
| VnueduLR_3221 | $(\bar{\nu}_{\tau L}\gamma^\mu\mu_L)(\bar{s}_R\gamma_\mu u_R)$ | C |
| SnueduRL_3221 | $(\bar{\nu}_{\tau L}\mu_R)(\bar{s}_R u_L)$ | C |
| SnueduRR_3221 | $(\bar{\nu}_{\tau L}\mu_R)(\bar{s}_L u_R)$ | C |
| TnueduRR_3221 | $(\bar{\nu}_{\tau L}\sigma^{\mu\nu}\mu_R)(\bar{s}_L\sigma_{\mu\nu}u_R)$ | C |

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| WC name | Operator | Type |
|---------------|---|------|
| VnueduLL_1111 | $(\bar{\nu}_{eL}\gamma^\mu e_L)(\bar{d}_L\gamma_\mu u_L)$ | C |
| VnueduLR_1111 | $(\bar{\nu}_{eL}\gamma^\mu e_L)(\bar{d}_R\gamma_\mu u_R)$ | C |
| SnueduRL_1111 | $(\bar{\nu}_{eL}e_R)(\bar{d}_R u_L)$ | C |
| SnueduRR_1111 | $(\bar{\nu}_{eL}e_R)(\bar{d}_L u_R)$ | C |
| TnueduRR_1111 | $(\bar{\nu}_{eL}\sigma^{\mu\nu}e_R)(\bar{d}_L\sigma_{\mu\nu}u_R)$ | C |
| VnueduLL_2111 | $(\bar{\nu}_{\mu L}\gamma^\mu e_L)(\bar{d}_L\gamma_\mu u_L)$ | C |
| VnueduLR_2111 | $(\bar{\nu}_{\mu L}\gamma^\mu e_L)(\bar{d}_R\gamma_\mu u_R)$ | C |
| SnueduRL_2111 | $(\bar{\nu}_{\mu L}e_R)(\bar{d}_R u_L)$ | C |
| SnueduRR_2111 | $(\bar{\nu}_{\mu L}e_R)(\bar{d}_L u_R)$ | C |
| TnueduRR_2111 | $(\bar{\nu}_{\mu L}\sigma^{\mu\nu}e_R)(\bar{d}_L\sigma_{\mu\nu}u_R)$ | C |
| VnueduLL_3111 | $(\bar{\nu}_{\tau L}\gamma^\mu e_L)(\bar{d}_L\gamma_\mu u_L)$ | C |
| VnueduLR_3111 | $(\bar{\nu}_{\tau L}\gamma^\mu e_L)(\bar{d}_R\gamma_\mu u_R)$ | C |
| SnueduRL_3111 | $(\bar{\nu}_{\tau L}e_R)(\bar{d}_R u_L)$ | C |
| SnueduRR_3111 | $(\bar{\nu}_{\tau L}e_R)(\bar{d}_L u_R)$ | C |
| TnueduRR_3111 | $(\bar{\nu}_{\tau L}\sigma^{\mu\nu}e_R)(\bar{d}_L\sigma_{\mu\nu}u_R)$ | C |

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| WC name | Operator | Type |
|---------------|---|------|
| VnueduLL_1211 | $(\bar{\nu}_{eL}\gamma^\mu\mu_L)(\bar{d}_L\gamma_\mu u_L)$ | C |
| VnueduLR_1211 | $(\bar{\nu}_{eL}\gamma^\mu\mu_L)(\bar{d}_R\gamma_\mu u_R)$ | C |
| SnueduRL_1211 | $(\bar{\nu}_{eL}\mu_R)(\bar{d}_R u_L)$ | C |
| SnueduRR_1211 | $(\bar{\nu}_{eL}\mu_R)(\bar{d}_L u_R)$ | C |
| TnueduRR_1211 | $(\bar{\nu}_{eL}\sigma^{\mu\nu}\mu_R)(\bar{d}_L\sigma_{\mu\nu}u_R)$ | C |
| VnueduLL_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\mu_L)(\bar{d}_L\gamma_\mu u_L)$ | C |
| VnueduLR_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\mu_L)(\bar{d}_R\gamma_\mu u_R)$ | C |
| SnueduRL_2211 | $(\bar{\nu}_{\mu L}\mu_R)(\bar{d}_R u_L)$ | C |
| SnueduRR_2211 | $(\bar{\nu}_{\mu L}\mu_R)(\bar{d}_L u_R)$ | C |
| TnueduRR_2211 | $(\bar{\nu}_{\mu L}\sigma^{\mu\nu}\mu_R)(\bar{d}_L\sigma_{\mu\nu}u_R)$ | C |
| VnueduLL_3211 | $(\bar{\nu}_{\tau L}\gamma^\mu\mu_L)(\bar{d}_L\gamma_\mu u_L)$ | C |
| VnueduLR_3211 | $(\bar{\nu}_{\tau L}\gamma^\mu\mu_L)(\bar{d}_R\gamma_\mu u_R)$ | C |
| SnueduRL_3211 | $(\bar{\nu}_{\tau L}\mu_R)(\bar{d}_R u_L)$ | C |
| SnueduRR_3211 | $(\bar{\nu}_{\tau L}\mu_R)(\bar{d}_L u_R)$ | C |
| TnueduRR_3211 | $(\bar{\nu}_{\tau L}\sigma^{\mu\nu}\mu_R)(\bar{d}_L\sigma_{\mu\nu}u_R)$ | C |

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| WC name | Operator | Type |
|-------------|---|------|
| VnudLL_1112 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{d}_L\gamma_\mu s_L)$ | C |
| VnudLL_2212 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{d}_L\gamma_\mu s_L)$ | C |
| VnudLL_3312 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{d}_L\gamma_\mu s_L)$ | C |
| VnudLR_1112 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{d}_R\gamma_\mu s_R)$ | C |
| VnudLR_2212 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{d}_R\gamma_\mu s_R)$ | C |
| VnudLR_3312 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{d}_R\gamma_\mu s_R)$ | C |
| VnudLL_1221 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{s}_L\gamma_\mu d_L)$ | C |
| VnudLR_1221 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{s}_R\gamma_\mu d_R)$ | C |
| VnudLL_1321 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{s}_L\gamma_\mu d_L)$ | C |
| VnudLR_1321 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{s}_R\gamma_\mu d_R)$ | C |
| VnudLL_1212 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{d}_L\gamma_\mu s_L)$ | C |
| VnudLR_1212 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{d}_R\gamma_\mu s_R)$ | C |
| VnudLL_2321 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{s}_L\gamma_\mu d_L)$ | C |
| VnudLR_2321 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{s}_R\gamma_\mu d_R)$ | C |
| VnudLL_1312 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{d}_L\gamma_\mu s_L)$ | C |
| VnudLR_1312 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{d}_R\gamma_\mu s_R)$ | C |
| VnudLL_2312 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{d}_L\gamma_\mu s_L)$ | C |
| VnudLR_2312 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{d}_R\gamma_\mu s_R)$ | C |

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| WC name | Operator | Type |
|-------------|--|------|
| VnueLL_1111 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{e}_L\gamma_\mu e_L)$ | R |
| VnueLL_1122 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\mu}_L\gamma_\mu\mu_L)$ | R |
| VnueLL_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{e}_L\gamma_\mu e_L)$ | R |
| VnueLL_2222 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{\mu}_L\gamma_\mu\mu_L)$ | R |
| VnueLL_3311 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{e}_L\gamma_\mu e_L)$ | R |
| VnueLL_3322 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{\mu}_L\gamma_\mu\mu_L)$ | R |
| VnuuLL_1111 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{u}_L\gamma_\mu u_L)$ | R |
| VnuuLL_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{u}_L\gamma_\mu u_L)$ | R |
| VnuuLL_3311 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{u}_L\gamma_\mu u_L)$ | R |
| VnudLL_1111 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{d}_L\gamma_\mu d_L)$ | R |
| VnudLL_1122 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{s}_L\gamma_\mu s_L)$ | R |
| VnudLL_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{d}_L\gamma_\mu d_L)$ | R |
| VnudLL_2222 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{s}_L\gamma_\mu s_L)$ | R |
| VnudLL_3311 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{d}_L\gamma_\mu d_L)$ | R |
| VnudLL_3322 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{s}_L\gamma_\mu s_L)$ | R |
| VnueLR_1111 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{e}_R\gamma_\mu e_R)$ | R |
| VnueLR_1122 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\mu}_R\gamma_\mu\mu_R)$ | R |
| VnueLR_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{e}_R\gamma_\mu e_R)$ | R |
| VnueLR_2222 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{\mu}_R\gamma_\mu\mu_R)$ | R |
| VnueLR_3311 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{e}_R\gamma_\mu e_R)$ | R |
| VnueLR_3322 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{\mu}_R\gamma_\mu\mu_R)$ | R |
| VnuuLR_1111 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{u}_R\gamma_\mu u_R)$ | R |
| VnuuLR_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{u}_R\gamma_\mu u_R)$ | R |
| VnuuLR_3311 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{u}_R\gamma_\mu u_R)$ | R |
| VnudLR_1111 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{d}_R\gamma_\mu d_R)$ | R |
| VnudLR_1122 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{s}_R\gamma_\mu s_R)$ | R |
| VnudLR_2211 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{d}_R\gamma_\mu d_R)$ | R |
| VnudLR_2222 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{s}_R\gamma_\mu s_R)$ | R |
| VnudLR_3311 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{d}_R\gamma_\mu d_R)$ | R |
| VnudLR_3322 | $(\bar{\nu}_{\tau L}\gamma^\mu\nu_{\tau L})(\bar{s}_R\gamma_\mu s_R)$ | R |
| VnueLL_1211 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{e}_L\gamma_\mu e_L)$ | C |
| VnueLL_1222 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\mu}_L\gamma_\mu\mu_L)$ | C |
| VnuuLL_1211 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{u}_L\gamma_\mu u_L)$ | C |
| VnudLL_1211 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{d}_L\gamma_\mu d_L)$ | C |
| VnudLL_1222 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{s}_L\gamma_\mu s_L)$ | C |
| VnueLR_1211 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{e}_R\gamma_\mu e_R)$ | C |
| VnueLR_1222 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\mu}_R\gamma_\mu\mu_R)$ | C |
| VnuuLR_1211 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{u}_R\gamma_\mu u_R)$ | C |
| VnudLR_1211 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{d}_R\gamma_\mu d_R)$ | C |
| VnudLR_1222 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{s}_R\gamma_\mu s_R)$ | C |
| VnueLL_1311 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{e}_L\gamma_\mu e_L)$ | C |
| VnueLL_1322 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{\mu}_L\gamma_\mu\mu_L)$ | C |
| VnuuLL_1311 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{u}_L\gamma_\mu u_L)$ | C |
| VnudLL_1311 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{d}_L\gamma_\mu d_L)$ | C |

| WC name | Operator | Type |
|-------------|---|------|
| VnudLL_1322 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{s}_L\gamma_\mu s_L)$ | C |
| VnueLR_1311 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{e}_R\gamma_\mu e_R)$ | C |
| VnueLR_1322 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{\mu}_R\gamma_\mu\mu_R)$ | C |
| VnuuLR_1311 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{u}_R\gamma_\mu u_R)$ | C |
| VnudLR_1311 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{d}_R\gamma_\mu d_R)$ | C |
| VnudLR_1322 | $(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{s}_R\gamma_\mu s_R)$ | C |
| VnueLL_2311 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{e}_L\gamma_\mu e_L)$ | C |
| VnueLL_2322 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{\mu}_L\gamma_\mu\mu_L)$ | C |
| VnuuLL_2311 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{u}_L\gamma_\mu u_L)$ | C |
| VnudLL_2311 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{d}_L\gamma_\mu d_L)$ | C |
| VnudLL_2322 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{s}_L\gamma_\mu s_L)$ | C |
| VnueLR_2311 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{e}_R\gamma_\mu e_R)$ | C |
| VnueLR_2322 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{\mu}_R\gamma_\mu\mu_R)$ | C |
| VnuuLR_2311 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{u}_R\gamma_\mu u_R)$ | C |
| VnudLR_2311 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{d}_R\gamma_\mu d_R)$ | C |
| VnudLR_2322 | $(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{s}_R\gamma_\mu s_R)$ | C |

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| WC name | Operator | Type |
|-------------|---|------|
| SdudRL_1111 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cu_R^\beta)(d_L^{\gamma T}C\nu_{eL})$ | C |
| SdudRL_1112 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cu_R^\beta)(d_L^{\gamma T}C\nu_{\mu L})$ | C |
| SdudRL_1113 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cu_R^\beta)(d_L^{\gamma T}C\nu_{\tau L})$ | C |
| SuddLL_1111 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cd_L^\beta)(d_L^{\gamma T}C\nu_{eL})$ | C |
| SuddLL_1112 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cd_L^\beta)(d_L^{\gamma T}C\nu_{\mu L})$ | C |
| SuddLL_1113 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cd_L^\beta)(d_L^{\gamma T}C\nu_{\tau L})$ | C |

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| WC name | Operator | Type |
|-------------|---|------|
| SdduRL_1211 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cs_R^\beta)(u_L^{\gamma T}C\nu_{eL})$ | C |
| SdduRL_1212 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cs_R^\beta)(u_L^{\gamma T}C\nu_{\mu L})$ | C |
| SdduRL_1213 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cs_R^\beta)(u_L^{\gamma T}C\nu_{\tau L})$ | C |
| SdudRL_1121 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cu_R^\beta)(s_L^{\gamma T}C\nu_{eL})$ | C |
| SdudRL_1122 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cu_R^\beta)(s_L^{\gamma T}C\nu_{\mu L})$ | C |
| SdudRL_1123 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cu_R^\beta)(s_L^{\gamma T}C\nu_{\tau L})$ | C |
| SdudRL_2111 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cu_R^\beta)(d_L^{\gamma T}C\nu_{eL})$ | C |
| SdudRL_2112 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cu_R^\beta)(d_L^{\gamma T}C\nu_{\mu L})$ | C |
| SdudRL_2113 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cu_R^\beta)(d_L^{\gamma T}C\nu_{\tau L})$ | C |

| WC name | Operator | Type |
|-------------|---|------|
| SuddLL_1121 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C d_L^\beta)(s_L^{\gamma T} C \nu_{eL})$ | C |
| SuddLL_1122 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C d_L^\beta)(s_L^{\gamma T} C \nu_{\mu L})$ | C |
| SuddLL_1123 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C d_L^\beta)(s_L^{\gamma T} C \nu_{\tau L})$ | C |
| SuddLL_1211 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C s_L^\beta)(d_L^{\gamma T} C \nu_{eL})$ | C |
| SuddLL_1212 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C s_L^\beta)(d_L^{\gamma T} C \nu_{\mu L})$ | C |
| SuddLL_1213 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C s_L^\beta)(d_L^{\gamma T} C \nu_{\tau L})$ | C |

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| WC name | Operator | Type |
|-------------|---|------|
| SdudRL_2121 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T} C u_R^\beta)(s_L^{\gamma T} C \nu_{eL})$ | C |
| SdudRL_2122 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T} C u_R^\beta)(s_L^{\gamma T} C \nu_{\mu L})$ | C |
| SdudRL_2123 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T} C u_R^\beta)(s_L^{\gamma T} C \nu_{\tau L})$ | C |
| SuddLL_1221 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C s_L^\beta)(s_L^{\gamma T} C \nu_{eL})$ | C |
| SuddLL_1222 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C s_L^\beta)(s_L^{\gamma T} C \nu_{\mu L})$ | C |
| SuddLL_1223 | $\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T} C s_L^\beta)(s_L^{\gamma T} C \nu_{\tau L})$ | C |

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| WC name | Operator | Type |
|-------------|--|------|
| SduuLL_1111 | $\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T} C u_L^\beta)(u_L^{\gamma T} C e_L)$ | C |
| SduuLR_1111 | $\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T} C u_L^\beta)(u_R^{\gamma T} C e_R)$ | C |
| SduuRL_1111 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T} C u_R^\beta)(u_L^{\gamma T} C e_L)$ | C |
| SduuRR_1111 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T} C u_R^\beta)(u_R^{\gamma T} C e_R)$ | C |

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| WC name | Operator | Type |
|-------------|--|------|
| SduuLL_1112 | $\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T} C u_L^\beta)(u_L^{\gamma T} C \mu_L)$ | C |
| SduuLR_1112 | $\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T} C u_L^\beta)(u_R^{\gamma T} C \mu_R)$ | C |
| SduuRL_1112 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T} C u_R^\beta)(u_L^{\gamma T} C \mu_L)$ | C |
| SduuRR_1112 | $\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T} C u_R^\beta)(u_R^{\gamma T} C \mu_R)$ | C |

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| WC name | Operator | Type |
|-------------|--|------|
| SduuLL_2111 | $\epsilon_{\alpha\beta\gamma}(s_L^{\alpha T} Cu_L^\beta)(u_L^{\gamma T} Ce_L)$ | C |
| SduuLR_2111 | $\epsilon_{\alpha\beta\gamma}(s_L^{\alpha T} Cu_L^\beta)(u_R^{\gamma T} Ce_R)$ | C |
| SduuRL_2111 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T} Cu_R^\beta)(u_L^{\gamma T} Ce_L)$ | C |
| SduuRR_2111 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T} Cu_R^\beta)(u_R^{\gamma T} Ce_R)$ | C |

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| WC name | Operator | Type |
|-------------|--|------|
| SduuLL_2112 | $\epsilon_{\alpha\beta\gamma}(s_L^{\alpha T} Cu_L^\beta)(u_L^{\gamma T} C\mu_L)$ | C |
| SduuLR_2112 | $\epsilon_{\alpha\beta\gamma}(s_L^{\alpha T} Cu_L^\beta)(u_R^{\gamma T} C\mu_R)$ | C |
| SduuRL_2112 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T} Cu_R^\beta)(u_L^{\gamma T} C\mu_L)$ | C |
| SduuRR_2112 | $\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T} Cu_R^\beta)(u_R^{\gamma T} C\mu_R)$ | C |