Basis JMS (EFT WET-2)

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

Sectors

The effective Lagrangian is defined as

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

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

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WC name	Operator	Type
egamma_11	$ar{e}_L \sigma^{\mu u} e_R F_{\mu u}$	C
ugamma_11	$ar{u}_L \sigma^{\mu u} u_R \dot{F}_{\mu u}$	$^{\mathrm{C}}$
dgamma_11	$ar{d}_L \sigma^{\mu u} d_R F_{\mu u}$	$^{\mathrm{C}}$
uG_11	$ar{u}_L \sigma^{\mu u} T^A u_R G^A_{\mu u}$	\mathbf{C}

$\begin{array}{llllllllllllllllllllllllllllllllllll$	Type
$ \begin{array}{lll} {\rm G} & f^{ABC} G_\mu^{A\nu} G_\nu^{B\rho} G_\rho^{C\mu} \\ {\rm Gtilde} & f^{ABC} G_\mu^{A\nu} G_\nu^{B\rho} G_\rho^{C\mu} \\ {\rm VeeLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm VeuLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm VeuLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm VeuLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm VuuLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm VuuLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm ViudLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm ViudLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm ViudLL_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_L \gamma_\mu e_L) \\ {\rm VeeRR_1111} & (\bar{e}_R \gamma^\mu e_R) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VeuRR_1111} & (\bar{e}_R \gamma^\mu e_R) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VeuRR_1111} & (\bar{e}_R \gamma^\mu e_R) (\bar{d}_R \gamma_\mu d_R) \\ {\rm VuRR_1111} & (\bar{e}_R \gamma^\mu e_R) (\bar{d}_R \gamma_\mu e_R) \\ {\rm ViudRR_1111} & (\bar{e}_R \gamma^\mu e_R) (\bar{d}_R \gamma_\mu e_R) \\ {\rm ViudRR_1111} & (\bar{e}_R \gamma^\mu e_R) (\bar{d}_R \gamma_\mu e_R) \\ {\rm ViudRR_1111} & (\bar{e}_R \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VeuLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VeuLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VelLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VelLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VelLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm VelLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViuLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViuLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViuLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} & (\bar{e}_L \gamma^\mu e_L) (\bar{e}_R \gamma_\mu e_R) \\ {\rm ViudLR_1111} &$	С
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$\begin{array}{llll} & & & & & & & & & & & \\ & & & & & & & $	\mathbf{R}
$\begin{array}{llll} \text{V8udLR_1111} & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\$	\mathbf{R}
$\begin{array}{lll} \text{V1duLR_1111} & (\bar{d}_L\gamma^\mu d_L)(\bar{u}_R\gamma_\mu u_R) \\ \text{V8duLR_1111} & (\bar{d}_L\gamma^\mu T^A d_L)(\bar{u}_R\gamma_\mu T^A u_R) \\ \text{V1ddLR_1111} & (\bar{d}_L\gamma^\mu d_L)(\bar{d}_R\gamma_\mu d_R) \\ \text{V8ddLR_1111} & (\bar{d}_L\gamma^\mu T^A d_L)(\bar{d}_R\gamma_\mu d_R) \\ \text{V1udduLR_1111} & (\bar{u}_L\gamma^\mu d_L)(\bar{d}_R\gamma_\mu u_R) \\ \text{V8udduLR_1111} & (\bar{u}_L\gamma^\mu T^A d_L)(\bar{d}_R\gamma_\mu T^A u_R) \\ \text{SeuRL_1111} & (\bar{e}_L e_R)(\bar{u}_R u_L) \\ \text{SedRL_1111} & (\bar{e}_L e_R)(\bar{d}_R d_L) \\ \text{SeeRR_1111} & (\bar{e}_L e_R)(\bar{e}_L e_R) \\ \text{SeuRR_1111} & (\bar{e}_L e_R)(\bar{u}_L u_R) \\ \end{array}$	\mathbf{R}
$\begin{array}{lll} \text{V8duLR_1111} & (\bar{d}_L\gamma^{\mu}T^Ad_L)(\bar{u}_R\gamma_{\mu}T^Au_R) \\ \text{V1ddLR_1111} & (\bar{d}_L\gamma^{\mu}d_L)(\bar{d}_R\gamma_{\mu}d_R) \\ \text{V8ddLR_1111} & (\bar{d}_L\gamma^{\mu}T^Ad_L)(\bar{d}_R\gamma_{\mu}T^Ad_R) \\ \text{V1udduLR_1111} & (\bar{u}_L\gamma^{\mu}d_L)(\bar{d}_R\gamma_{\mu}u_R) \\ \text{V8udduLR_1111} & (\bar{u}_L\gamma^{\mu}T^Ad_L)(\bar{d}_R\gamma_{\mu}T^Au_R) \\ \text{SeuRL_1111} & (\bar{e}_Le_R)(\bar{u}_Ru_L) \\ \text{SedRL_1111} & (\bar{e}_Le_R)(\bar{d}_Rd_L) \\ \text{SeeRR_1111} & (\bar{e}_Le_R)(\bar{e}_Le_R) \\ \text{SeuRR_1111} & (\bar{e}_Le_R)(\bar{e}_Le_R) \\ \text{SeuRR_1111} & (\bar{e}_Le_R)(\bar{u}_Lu_R) \\ \end{array}$	\mathbf{R}
$\begin{array}{lll} \text{V1ddLR_1111} & (\bar{d}_L\gamma^\mu d_L)(\bar{d}_R\gamma_\mu d_R) \\ \text{V8ddLR_1111} & (\bar{d}_L\gamma^\mu T^A d_L)(\bar{d}_R\gamma_\mu T^A d_R) \\ \text{V1udduLR_1111} & (\bar{u}_L\gamma^\mu d_L)(\bar{d}_R\gamma_\mu u_R) \\ \text{V8udduLR_1111} & (\bar{u}_L\gamma^\mu T^A d_L)(\bar{d}_R\gamma_\mu T^A u_R) \\ \text{SeuRL_1111} & (\bar{e}_L e_R)(\bar{u}_R u_L) \\ \text{SedRL_1111} & (\bar{e}_L e_R)(\bar{d}_R d_L) \\ \text{SeeRR_1111} & (\bar{e}_L e_R)(\bar{e}_L e_R) \\ \text{SeuRR_1111} & (\bar{e}_L e_R)(\bar{u}_L u_R) \\ \end{array}$	\mathbf{R}
$\begin{array}{lll} \text{V8ddLR_1111} & (\bar{d}_L \gamma^\mu T^A d_L) (\bar{d}_R \gamma_\mu T^A d_R) \\ \text{V1udduLR_1111} & (\bar{u}_L \gamma^\mu d_L) (\bar{d}_R \gamma_\mu u_R) \\ \text{V8udduLR_1111} & (\bar{u}_L \gamma^\mu T^A d_L) (\bar{d}_R \gamma_\mu T^A u_R) \\ \text{SeuRL_1111} & (\bar{e}_L e_R) (\bar{u}_R u_L) \\ \text{SedRL_1111} & (\bar{e}_L e_R) (\bar{d}_R d_L) \\ \text{SeeRR_1111} & (\bar{e}_L e_R) (\bar{e}_L e_R) \\ \text{SeuRR_1111} & (\bar{e}_L e_R) (\bar{u}_L u_R) \\ \end{array}$	\mathbf{R}
$\begin{array}{lll} \text{V1udduLR_1111} & (\bar{u}_L \gamma^\mu d_L) (\bar{d}_R \gamma_\mu u_R) \\ \text{V8udduLR_1111} & (\bar{u}_L \gamma^\mu T^A d_L) (\bar{d}_R \gamma_\mu T^A u_R) \\ \text{SeuRL_1111} & (\bar{e}_L e_R) (\bar{u}_R u_L) \\ \text{SedRL_1111} & (\bar{e}_L e_R) (\bar{d}_R d_L) \\ \text{SeeRR_1111} & (\bar{e}_L e_R) (\bar{e}_L e_R) \\ \text{SeuRR_1111} & (\bar{e}_L e_R) (\bar{u}_L u_R) \\ \end{array}$	\mathbf{R}
$\begin{array}{lll} \text{V8udduLR_1111} & (\bar{u}_L \gamma^\mu T^A d_L) (\bar{d}_R \gamma_\mu T^A u_R) \\ \text{SeuRL_1111} & (\bar{e}_L e_R) (\bar{u}_R u_L) \\ \text{SedRL_1111} & (\bar{e}_L e_R) (\bar{d}_R d_L) \\ \text{SeeRR_1111} & (\bar{e}_L e_R) (\bar{e}_L e_R) \\ \text{SeuRR_1111} & (\bar{e}_L e_R) (\bar{u}_L u_R) \\ \end{array}$	\mathbf{R}
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	\mathbf{C}
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	\mathbf{C}
SeeRR_1111 $(\bar{e}_L e_R)(\bar{e}_L e_R)$ SeuRR_1111 $(\bar{e}_L e_R)(\bar{u}_L u_R)$	\mathbf{C}
SeeRR_1111 $(\bar{e}_L e_R)(\bar{e}_L e_R)$ SeuRR_1111 $(\bar{e}_L e_R)(\bar{u}_L u_R)$	\mathbf{C}
SeuRR_1111 $(\bar{e}_L e_R)(\bar{u}_L u_R)$	\mathbf{C}
TeuRR 1111 $(\bar{e}_I \sigma^{\mu\nu} e_P)(\bar{u}_I \sigma u_P)$	\mathbf{C}
$(U_L \cup U_L \cup U_L$	\mathbf{C}
SedRR_1111 $(ar{e}_L e_R)(ar{d}_L d_R)$	\mathbf{C}
TedRR_1111 $(\bar{e}_L\sigma^{\mu\nu}e_R)(\bar{d}_L\sigma_{\mu\nu}d_R)$	\mathbf{C}
S1uuRR_1111 $(\bar{u}_L u_R)(\bar{u}_L u_R)$	\mathbf{C}
S8uuRR_1111 $(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$	\mathbf{C}
S1udRR_1111 $(\bar{u}_L u_R)(\bar{d}_L d_R)$	\mathbf{C}
S8udRR_1111 $(ar{u}_L T^A u_R) (ar{d}_L T^A d_R)$	\mathbf{C}

WC name	Operator	Type
S1ddRR_1111	$(ar{d}_L d_R)(ar{d}_L d_R)$	C
S8ddRR_1111	$(ar{d}_L T^A d_R) (ar{d}_L T^A d_R)$	$^{\mathrm{C}}$
S1udduRR_1111	$(ar{u}_L d_R)(ar{d}_L u_R)$	$^{\mathrm{C}}$
S8udduRR_1111	$(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	$^{\mathrm{C}}$

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WC name	Operator	Type
VnueLL_1111	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{e}_{L}\gamma_{\mu}e_{L})$	R
VnueLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{e}_L \gamma_{\mu} e_L)$	\mathbf{R}
VnueLL_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_{L} \gamma_{\mu} e_{L})$	\mathbf{R}
VnuuLL_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{u}_{L}\gamma_{\mu}u_{L})$	\mathbf{R}
VnuuLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{u}_L \dot{\gamma}_{\mu} u_L)$	\mathbf{R}
VnuuLL_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{u}_{L} \gamma_{\mu} u_{L})$	\mathbf{R}
VnudLL_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{L}\gamma_{\mu}d_{L})$	\mathbf{R}
VnudLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{d}_L \gamma_{\mu} d_L)$	\mathbf{R}
VnudLL_3311	$(ar u_{ au L} \gamma^\mu u_{ au L}) (ar d_L \gamma_\mu d_L)$	\mathbf{R}
VnueLR_1111	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{e}_R\gamma_{\mu}e_R)$	\mathbf{R}
VnueLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{e}_R \gamma_{\mu} e_R)$	\mathbf{R}
VnueLR_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_R \gamma_{\mu} e_R)$	\mathbf{R}
VnuuLR_1111	$(ar u_{eL}\gamma^\mu u_{eL})(ar u_R\gamma_\mu u_R)$	\mathbf{R}
VnuuLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{u}_R \gamma_{\mu} u_R)$	R
VnuuLR_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{u}_R \gamma_{\mu} u_R)$	R
VnudLR_1111	$(ar u_{eL}\gamma^\mu u_{eL})(ar d_R\gamma_\mu d_R)$	R
VnudLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{d}_R \gamma_{\mu} d_R)$	\mathbf{R}
VnudLR_3311	$(ar u_{ au L} \gamma^\mu u_{ au L}) (ar d_R \gamma_\mu d_R)$	\mathbf{R}
VnueLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu}e_{L})$	\mathbf{C}
VnuuLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{u}_{L}\gamma_{\mu}u_{L})$	\mathbf{C}
VnudLL_1211	$(ar u_{eL}\gamma^\mu u_{\mu L})(ar d_L\gamma_\mu d_L)$	\mathbf{C}
VnueLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu}e_{R})$	\mathbf{C}
VnuuLR_1211	$(ar u_{eL}\gamma^\mu u_{\mu L})(ar u_R\gamma_\mu u_R)$	\mathbf{C}
VnudLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_R\gamma_{\mu}d_R)$	\mathbf{C}
VnueLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu}e_{L})$	\mathbf{C}
VnuuLL_1311	$(ar u_{eL}\gamma^\mu u_{ au L})(ar u_L\gamma_\mu u_L)$	\mathbf{C}
VnudLL_1311	$(ar u_{eL}\gamma^\mu u_{ au L})(ar d_L\gamma_\mu d_L)$	\mathbf{C}
VnueLR_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu}e_{R})$	\mathbf{C}
VnuuLR_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{u}_{R}\gamma_{\mu}u_{R})$	\mathbf{C}
VnudLR_1311	$(ar u_{eL}\gamma^\mu u_{ au L})(ar d_R\gamma_\mu d_R)$	\mathbf{C}
VnueLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{e}_L \gamma_{\mu} e_L)$	\mathbf{C}
VnuuLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{u}_L \gamma_{\mu} u_L)$	\mathbf{C}
VnudLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{d}_L \gamma_{\mu} d_L)$	\mathbf{C}
VnueLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{e}_R \gamma_{\mu} e_R)$	\mathbf{C}

WC name	Operator	Type
VnuuLR_2311	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\tau L})(\bar{u}_R \gamma_{\mu} u_R)$	\overline{C}
VnudLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{d}_R \gamma_{\mu} d_R)$	\mathbf{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	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(d_L^{ar{\gamma} T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_1113	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^eta)(d_L^{\gamma T}C u_{ au L})$	$^{\mathrm{C}}$
SuddLL_1111	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^eta)(d_L^{\gamma T}C u_{eL})$	\mathbf{C}
SuddLL_1112	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^eta)(d_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_1113	$\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cd_L^{\beta})(d_L^{\gamma T}C\nu_{\tau L})$	\mathbf{C}

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WC name	Operator	Type
SduuLL_1111	$\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T}Cu_L^{\beta})(u_L^{\gamma T}Ce_L)$	C
SduuLR_1111	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^{\overline{eta}})(u_R^{\overline{\gamma} T}Ce_R)$	$^{\mathrm{C}}$
SduuRL_1111	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{ar{eta}})(u_L^{ar{\gamma} T}Ce_L)$	$^{\mathrm{C}}$
SduuRR_1111	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(u_R^{\gamma T}Ce_R)$	$^{\mathrm{C}}$