$Basis \; \mathtt{Warsaw} \; \; \mathtt{up} \; (EFT \; \mathtt{SMEFT})$

Variant of the Warsaw basis where the up-type quark mass matrix (rather than the down-type quark) is diagonal.

Sectors

dB=dL=0

WC name	Operator	Type
G	$f^{ABC}G^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	R
Gtilde	$f^{ABC}\widetilde{G}^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	R
W	$\epsilon^{IJK}W_{\mu}^{I u}W_{ u}^{J ho}W_{ ho}^{K\mu}$	R
Wtilde	$\epsilon^{IJK}\widetilde{W}_{\mu}^{I u}W_{ u}^{J ho}W_{ ho}^{K\mu}$	R
phi	$\left(arphi^\daggerarphi ight)^3$	R
phiBox	$\left(arphi^\daggerarphi ight)\square\left(arphi^\daggerarphi ight)$	R
phiD	$\left(arphi^\dagger D^\mu arphi ight)^* \left(arphi^\dagger D_\mu arphi ight)$	R
phiG	$arphi^\dagger arphi G^A_{\mu u} G^{A\mu u}$	R
phiB	$arphi^{\dagger}arphi B_{\mu u} B^{\mu u}$	R
phiW	$arphi^\dagger arphi W^I_{\mu u} W^{I\mu u}$	R
phiWB	$\varphi^{\dagger} \tau^{I} \varphi W^{I}_{\mu\nu} B^{\mu\nu}$	R
phiGtilde	$arphi^\dagger arphi G^A_{\mu u} G^{A\mu u}$	R
phiBtilde	$arphi^\dagger arphi \widetilde{B}_{\mu u} B^{\mu u}$	R
phiWtilde	$arphi^\dagger arphi \widetilde{W}^I_{\mu u} W^{I\mu u}$	R
phiWtildeB	$arphi^\dagger au^I arphi \widetilde{W}^I_{\mu u} B^{\mu u}$	R
uphi_11	$(\varphi^{\dagger}\varphi)(ar{q}_1u_1\widetilde{\varphi})$	$^{\mathrm{C}}$
uphi_12	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_2\widetilde{arphi} ight)$	$^{\mathrm{C}}$
uphi_13	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_3\widetilde{arphi} ight)$	\mathbf{C}
uphi_21	$\left(arphi^\daggerarphi ight)\left(ar{q}_2u_1\widetilde{arphi} ight)$	\mathbf{C}
uphi_22	$\left(arphi^\daggerarphi ight)\left(ar{q}_2u_2\widetilde{arphi} ight)$	\mathbf{C}
uphi_23	$\left(arphi^\daggerarphi ight)\left(ar{q}_2u_3\widetilde{arphi} ight)$	$^{\mathrm{C}}$
uphi_31	$\left(arphi_{_{1}}^{\dagger}arphi ight) \left(ar{q}_{3}u_{1}\widetilde{arphi} ight)$	C
uphi_32	$\left(arphi_{oldsymbol{\perp}}^{\dagger}arphi ight) \left(ar{q}_{3}u_{2}\widetilde{\widetilde{arphi}} ight)$	C
uphi_33	$\left(arphi_{_{\perp}}^{\dagger}arphi ight)\left(ar{q}_{3}u_{3}\widetilde{arphi} ight)$	C
dphi_11	$\left(arphi_{_{+}}^{\dagger}arphi ight)\left(ar{q}_{1}d_{1}arphi ight)$	C
dphi_12	$\left(arphi_{_{\perp}}^{\dagger}arphi ight)\left(ar{q}_{1}d_{2}arphi ight)$	C
dphi_13	$\left(arphi_{+}^{\dagger}arphi ight) \left(ar{q}_{1}d_{3}arphi ight)$	C
dphi_21	$\left(\varphi^{\dagger} \varphi \right) \left(\bar{q}_2 d_1 \varphi \right)$	C
dphi_22	$\left(arphi^{\dagger}arphi ight)\left(ar{q}_{2}d_{2}arphi ight)$	C
dphi_23	$\left(arphi^{\dagger} arphi \right) \left(ar{q}_2 d_3 arphi \right)$	C
dphi_31	$\left(arphi^{\dagger}arphi ight) \left(ar{q}_{3}d_{1}arphi ight) \left(ar{q}_{3}d_{1}arphi ight)$	C C
dphi_32	$\left(arphi^{\dagger}arphi ight)\left(ar{q}_{3}d_{2}arphi ight)$	C

WC name	Operator	Type
dphi_33	$\left(arphi^{\dagger}arphi ight)\left(ar{q}_{3}d_{3}arphi ight)$	С
ephi_11	$\left(arphi^\daggerarphi ight)\left(ar\ell_1e_1arphi ight)$	\mathbf{C}
ephi_12	$\left(arphi^\daggerarphi ight)\left(ar\ell_1e_2arphi ight)$	\mathbf{C}
ephi_13	$\left(arphi^\daggerarphi ight)\left(ar\ell_1e_3arphi ight)$	\mathbf{C}
ephi_21	$\left\langle arphi^{\dagger}arphi ight angle \left\langle ar{\ell}_{2}e_{1}arphi ight angle$	\mathbf{C}
ephi_22	$\left(arphi^\daggerarphi ight)\left(ar\ell_2e_2arphi ight)$	\mathbf{C}
ephi_23	$\left(arphi^\daggerarphi ight)\left(ar\ell_2e_3arphi ight)$	\mathbf{C}
ephi_31	$\left(arphi^\daggerarphi ight)\left(ar\ell_3e_1arphi ight)$	\mathbf{C}
ephi_32	$\left(arphi^\daggerarphi ight)\left(ar\ell_3e_2arphi ight)$	\mathbf{C}
ephi_33	$\left(arphi^\daggerarphi ight)\left(ar\ell_3e_3arphi ight)$	\mathbf{C}
eW_11	$(\bar{\ell}_1 \sigma^{\mu \nu} \hat{e}_1) au^I \hat{\varphi} W^I_{\mu u}$	\mathbf{C}
eW_12	$(\bar{\ell}_1 \sigma^{\mu u} e_2) au^I \varphi W^I_{\mu u}$	\mathbf{C}
eW_13	$(\bar{\ell}_1 \sigma^{\mu u} e_3) au^I \varphi W^I_{\mu u}$	\mathbf{C}
eW_21	$(\bar{\ell}_2 \sigma^{\mu\nu} e_1) \tau^I \varphi W_{\mu\nu}^{II}$	\mathbf{C}
eW_22	$(\bar{\ell}_2 \sigma^{\mu\nu} e_2) \tau^I \varphi W_{\mu\nu}^I$	\mathbf{C}
eW_23	$(\bar{\ell}_2 \sigma^{\mu\nu} e_3) \tau^I \varphi W_{\mu\nu}^{I}$	\mathbf{C}
eW_31	$(\bar{\ell}_3 \sigma^{\mu\nu} e_1) \tau^I \varphi W_{\mu\nu}^I$	\mathbf{C}
eW_32	$(\bar{\ell}_3 \sigma^{\mu\nu} e_2) \tau^I \varphi W_{\mu\nu}^I$	\mathbf{C}
eW_33	$(\bar{\ell}_3 \sigma^{\mu\nu} e_3) \tau^I \varphi W_{\mu\nu}^I$	\mathbf{C}
eB_11	$(\bar{\ell}_1 \sigma^{\mu \nu} e_1) \varphi B_{\mu \nu}$	\mathbf{C}
eB_12	$(ar{\ell}_1\sigma^{\mu u}e_2)arphi B_{\mu u}$	\mathbf{C}
eB_13	$(\bar{\ell}_1\sigma^{\mu u}e_3)arphi B_{\mu u}$	\mathbf{C}
eB_21	$(\bar{\ell}_2\sigma^{\mu u}e_1)\varphi B_{\mu u}$	\mathbf{C}
eB_22	$\left(ar{\ell}_2\sigma^{\mu u}e_2 ight)arphi B_{\mu u}$	\mathbf{C}
eB_23	$(ar{\ell}_2\sigma^{\mu u}e_3)arphi B_{\mu u}$	\mathbf{C}
eB_31	$(\bar{\ell}_3 \sigma^{\mu u} e_1) \varphi B_{\mu u}$	\mathbf{C}
eB_32	$(\bar{\ell}_3\sigma^{\mu u}e_2)arphi B_{\mu u}$	\mathbf{C}
eB_33	$(ar{\ell}_3\sigma^{\mu u}e_3)arphi B_{\mu u}$	\mathbf{C}
uG_11	$\left(ar{q}_1\sigma^{\mu u}T^Au_1 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uG_12	$\left(ar{q}_1\sigma^{\mu u}T^Au_2 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uG_13	$\left(ar{q}_1\sigma^{\mu u}T^Au_3 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uG_21	$\left(ar{q}_2\sigma^{\mu u}T^Au_1 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uG_22	$\left(ar{q}_2\sigma^{\mu u}T^Au_2 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uG_23	$\left(ar{q}_2\sigma^{\mu u}T^A_{}u_3 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uG_31	$\left(ar{q}_3 \sigma^{\mu u} T^A u_1 \right) \widetilde{arphi} \widetilde{arphi}_{\mu u}^{A}$	\mathbf{C}
uG_32	$\left(ar{q}_3\sigma^{\mu u}T^Au_2 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uG_33	$\left(ar{q}_3\sigma^{\mu u}T^Au_3 ight)\widetilde{arphi}G^A_{\mu u}$	\mathbf{C}
uW_11	$(q_3\sigma^{\mu\nu} 1 \stackrel{\iota}{\iota} u_3) \varphi G^{\iota}_{\mu\nu}$ $(\bar{q}_1\sigma^{\mu\nu} u_1) \tau^I \widetilde{\varphi} W^I_{\mu\nu}$ $(\bar{q}_1\sigma^{\mu\nu} u_2) \tau^I \widetilde{\varphi} W^I$	\mathbf{C}
uW_12	$(q_1o \cdot a_2) \vdash \varphi v \downarrow_{\mu\nu}$	C
uW_13	$(\bar{q}_1\sigma^{\mu\nu}u_3) au^I\widetilde{\varphi}W^I_{\mu u}$	$^{\mathrm{C}}$
uW_21	$(\bar{q}_2\sigma^{\mu\nu}u_1) au^I\widetilde{\varphi}W^I_{\mu u}$	С
uW_22	$(ar{q}_2\sigma^{\mu u}u_2) au^I\widetilde{arphi}W^{TI}_{\mu u}$	$^{\mathrm{C}}$

WC name	Operator	Type
uW_23	$(\bar{q}_2\sigma^{\mu\nu}u_3)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_31	$(ar{q}_3\sigma^{\mu u}u_1) au^I\widetilde{arphi}W^I_{\mu u}$	\mathbf{C}
uW_32	$(ar{q}_3\sigma^{\mu u}u_2) au^I\widetilde{arphi}W^I_{\mu u}$	\mathbf{C}
uW_33	$(ar{q}_3\sigma^{\mu u}u_3) au^I\widetilde{arphi}W^{\widetilde{I}}_{\mu u}$	\mathbf{C}
uB_11	$(ar{q}_1\sigma^{\mu u}u_1)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
uB_12	$(ar{q}_1\sigma^{\mu u}u_2)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
uB_13	$(ar{q}_1\sigma^{\mu u}u_3)\widetilde{arphi}B_{\mu u}$	C
uB_21	$(ar{q}_2\sigma^{\mu u}u_1)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
uB_22	$(ar{q}_2\sigma^{\mu u}u_2)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
uB_23	$(ar{q}_2\sigma^{\mu u}u_3)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
uB_31	$(\bar{q}_3\sigma^{\mu u}u_1)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
uB_32	$(ar{q}_3\sigma^{\mu u}u_2)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
uB_33	$(ar{q}_3\sigma^{\mu u}u_3)\widetilde{arphi}B_{\mu u}$	\mathbf{C}
dG_11	$\left(ar{q}_{1}\sigma^{\mu u}T^{A}d_{1}\right)arphi G_{\mu u}^{A}$	\mathbf{C}
dG_12	$\left(\bar{q}_1\sigma^{\mu u}T^Ad_2\right)arphi G_{\mu u}^A$	$^{\mathrm{C}}$
dG_13	$\left(\bar{q}_1\sigma^{\mu\nu}T^Ad_3\right)arphi G_{\mu u}^{\mu u}$	\mathbf{C}
dG_21	$\left(ar{q}_2\sigma^{\mu u}T^Ad_1 ight)arphi G^A_{\mu u}$	\mathbf{C}
dG_22	$\left(ar{q}_2\sigma^{\mu u}T^Ad_2 ight)arphi G^A_{\mu u}$	\mathbf{C}
dG_23	$\left(\bar{q}_2\sigma^{\mu u}T^Ad_3\right)arphi G^{\mu u}_{\mu u}$	\mathbf{C}
dG_31	$\left(\bar{q}_3\sigma^{\mu u}T^Ad_1\right)arphi G^A_{\mu u}$	$\dot{ ext{C}}$
dG_32	$\left(\bar{q}_3\sigma^{\mu u}T^Ad_2\right)arphi G^A_{\mu u}$	Č
dG_33	$(\bar{q}_3\sigma^{\mu\nu}T^Ad_3)arphi G_{\mu u}^A$	Č
dW_11	$(\bar{q}_1\sigma^{\mu u}d_1) au^Iarphi W^I_{\mu u}$	Č
dW_12	$(ar{q}_1\sigma^{\mu u}d_2) au^Iarphi W^I_{\mu u}$	$\overset{\circ}{\mathrm{C}}$
dW_13	$(\bar{q}_1\sigma^{\mu\nu}d_3) au^Iarphi^I_{\mu u}$	$\overset{\circ}{\mathrm{C}}$
dW_21	$(\bar{q}_1\sigma^{\mu\nu}d_1) au^Iarphi^{\mu u}$	Č
dW_22	$(\bar{q}_2\sigma^{\mu\nu}d_2) au^Iarphi^I_{\mu u}$	$\overset{\circ}{\mathrm{C}}$
dW_23	$(q_2\sigma^{\mu\nu}d_3) au^Iarphi^{\mu u}$ $(ar{q}_2\sigma^{\mu u}d_3) au^Iarphi^{U}_{\mu u}$	Č
dW_31	$(q_2\sigma^{\mu\nu}d_1) au^Iarphi^{\mu u}$ $(ar{q}_3\sigma^{\mu u}d_1) au^Iarphi^{U}_{\mu u}$	$\overset{\circ}{\mathrm{C}}$
dW_32	$(ar{q}_3\sigma^{\mu u}d_1)^{T}arphi^{W}_{\mu u} \ (ar{q}_3\sigma^{\mu u}d_2)^{T}arphi^{I}arphi^{W}_{\mu u}$	$\stackrel{\circ}{\mathrm{C}}$
dW_33	$(ar{q}_3\sigma^{\mu u}d_3) au^Iarphi W^I_{\mu u} \ (ar{q}_3\sigma^{\mu u}d_3) au^Iarphi W^I_{\mu u}$	C
dB_11	$(q_3\sigma^{\mu\nu}d_1) \varphi^{\mu\nu}$ $(\bar{q}_1\sigma^{\mu\nu}d_1) \varphi B_{\mu\nu}$	C
dB_11 dB_12	$(q_1\sigma^{\mu}) \varphi B_{\mu\nu} \ (\bar{q}_1\sigma^{\mu\nu}d_2) \varphi B_{\mu\nu}$	C
dB_12 dB_13	$(q_1\sigma^{\mu\nu}) \varphi B_{\mu\nu} \ (\bar{q}_1\sigma^{\mu\nu}d_3) \varphi B_{\mu\nu}$	C
dB_13 dB_21	$(q_1\sigma^{\mu\nu}d_1)\varphi B_{\mu\nu} = (\bar{q}_2\sigma^{\mu\nu}d_1)\varphi B_{\mu\nu}$	C
dB_21 dB_22	$(q_2\sigma^{\mu\nu}) \varphi B_{\mu\nu} \ (\bar{q}_2\sigma^{\mu\nu}d_2) \varphi B_{\mu\nu}$	C
dB_22	$(q_2\sigma^{\mu\nu}) \varphi B_{\mu\nu} \ (\bar{q}_2\sigma^{\mu\nu}d_3) \varphi B_{\mu\nu}$	C
dB_23	$(q_2\sigma^{\mu}d_1)\varphi B_{\mu\nu} = (\bar{q}_3\sigma^{\mu\nu}d_1)\varphi B_{\mu\nu}$	C
dB_31 dB_32	$(q_3\sigma^{\mu\nu}) \varphi B_{\mu\nu} \ (\bar{q}_3\sigma^{\mu\nu}d_2) \varphi B_{\mu\nu}$	C
dB_32 dB_33	$(q_3\sigma^{\prime\prime} a_2) \varphi B_{\mu\nu} \ (\bar{q}_3\sigma^{\mu\nu}d_3) \varphi B_{\mu\nu}$	C
αD_33	$(q_30 \leftrightarrow \beta) \varphi D_{\mu\nu}$	
phil1_11	$\left(egin{array}{c} arphi^\dagger i \overleftrightarrow{D}_\mu arphi ight) (ar{\ell}_1 \gamma^\mu \ell_1) \ \left(arphi^\dagger i \overleftrightarrow{D}_\mu arphi ight) (ar{\ell}_1 \gamma^\mu \ell_2) \end{array}$	R
phil1_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_1 \gamma^\mu \ell_2 ight)$	\mathbf{C}
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VC name	Operator	Type
hil1_13	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_1 \gamma^\mu \ell_3 ight)$	\mathbf{C}
hil1_22	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{\ell}_{2}\gamma^{\mu}\ell_{2} ight)$	R
hil1_23	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_2 \gamma^\mu \ell_3 ight)$	\mathbf{C}
hil1_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{\ell}_{3}\gamma^{\mu}\ell_{3} ight)$	R
hi13_11	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{\ell}_{1} au^{I}\gamma^{\mu}\ell_{1} ight)$	R
hi13_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{\ell}_1 au^I \gamma^\mu \ell_2 ight)$	\mathbf{C}
hi13_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{\ell}_{1} au^{I}\gamma^{\mu}\ell_{3} ight)$	\mathbf{C}
hi13_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{\ell}_2 au^I \gamma^\mu \ell_2 ight)$	R
hi13_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{\ell}_{2} au^{I}\gamma^{\mu}\ell_{3} ight)$	$^{\mathrm{C}}$
hi13_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{\ell}_{3} au^{I}\gamma^{\mu}\ell_{3} ight)$	R
hie_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_1 \gamma^\mu e_1)$	R
hie_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{e}_1 \gamma^\mu e_2 ight)$	\mathbf{C}
hie_13	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{e}_1 \gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
hie_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_2 \gamma^\mu e_2)$	R
hie_23	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_2 \gamma^\mu e_3)$	$^{\mathrm{C}}$
hie_33	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_3 \gamma^\mu e_3)$	R
hiq1_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{q}_1 \gamma^\mu q_1)$	R
hiq1_12	$ \begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{1} \gamma^{\mu} q_{2}) \\ \begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{1} \gamma^{\mu} q_{3}) \\ \begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{2} \gamma^{\mu} q_{2}) \\ \begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{2} \gamma^{\mu} q_{3}) \\ \begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{3} \gamma^{\mu} q_{3}) \end{pmatrix} $	$^{\mathrm{C}}$
hiq1_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{1}\gamma^{\mu}q_{3} ight)$	$^{\mathrm{C}}$
hiq1_22	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight angle \left(ar{q}_{2}\gamma^{\mu}q_{2} ight)$	R
hiq1_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{q}_{2}\gamma^{\mu}q_{3}) \ \left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{q}_{3}\gamma^{\mu}q_{3})$	\mathbf{C}
hiq1_33	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{q}_3 \gamma^\mu q_3)$	R

WC name	Operator	
phiq3_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{q}_1 au^I \gamma^\mu q_1 ight)$	
phiq3_12	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight angle \left(ar{q}_{1} au^{I}\gamma^{\mu}q_{2} ight)$	
phiq3_13	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight angle \left(ar{q}_{1} au^{I}\gamma^{\mu}q_{3} ight)$	
phiq3_22	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight angle \left(ar{q}_{2} au^{I}\gamma^{\mu}q_{2} ight)$	
phiq3_23	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{q}_2 au^I \gamma^\mu q_3 ight)$	
phiq3_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{q}_{3} au^{I}\gamma^{\mu}q_{3} ight)$	
phiu_11	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{1}\gamma^{\mu}u_{1})$	
phiu_12	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight) \left(ar{u}_{1}\gamma^{\mu}u_{2} ight)$	
phiu_13	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight angle \left(ar{u}_{1}\gamma^{\mu}u_{3} ight)$	
phiu_22	$\left(\varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi\right)(\bar{u}_{2}\gamma^{\mu}u_{2})$	
phiu_23	$\left\langle \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \right\rangle (\bar{u}_2 \gamma^{\mu} u_3)$	
phiu_33	$\left\langle \varphi^{\dagger}i\stackrel{\leftrightarrow}{D}_{\mu}\varphi ight angle (ar{u}_{3}\gamma^{\mu}u_{3})$	
phid_11	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight angle \left(ar{d}_{1}\gamma^{\mu}d_{1} ight)$	
phid_12	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight angle \left(ar{d}_{1}\gamma^{\mu}d_{2} ight)$	
phid_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{d}_{1}\gamma^{\mu}d_{3} ight)$	
phid_22	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight angle \left(ar{d}_{2}\gamma^{\mu}d_{2} ight)$	
phid_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{d}_{2}\gamma^{\mu}d_{3} ight)$	
phid_33	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight angle \left(ar{d}_{3}\gamma^{\mu}d_{3} ight)$	
phiud_11	$(\stackrel{\smile}{\varphi}^\dagger i D_\mu \varphi)' (\bar{u}_1 \gamma^\mu d_1)$	
phiud_12	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{1}\gamma^{\mu}d_{2} ight)$	
phiud_13	$\left(\widetilde{\varphi}^{\dagger}iD_{\mu}\varphi\right)\left(ar{u}_{1}\gamma^{\mu}d_{3} ight)$	
phiud_21	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{2}\gamma^{\mu}d_{1} ight)$	
phiud_22	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{2}\gamma^{\mu}d_{2} ight)$	
phiud_23	$\left(\widetilde{\varphi}^{\dagger}iD_{\mu}\varphi\right)\left(\bar{u}_{2}\gamma^{\mu}d_{3}\right)$	
phiud_31 phiud_32	$egin{aligned} \left(\widetilde{arphi}^\dagger i D_\mu arphi ight) \left(ar{u}_3 \gamma^\mu d_1 ight) \ \left(\widetilde{arphi}^\dagger i D_\mu arphi ight) \left(ar{u}_3 \gamma^\mu d_2 ight) \end{aligned}$	

WC name	Operator	Type
phiud_33	$\left(\widetilde{\varphi}^{\dagger}iD_{\mu}\varphi\right)\left(\bar{u}_{3}\gamma^{\mu}d_{3}\right)$	С
11_1111	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{\ell}_1\gamma^\mu\ell_1)$	R
11_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_1\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1113	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_1\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1122	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_2\gamma^\mu\ell_2 ight)$	R
11_1123	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_2\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	R
11_1212	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_1\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_1\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_1 ight)$	R
11_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1223	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_3\gamma^\mu\ell_1 ight)$	$^{\mathrm{C}}$
11_1232	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_3\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1233	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1313	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_1\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1322	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_2\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1323	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_2\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1331	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_3\gamma^\mu\ell_1 ight)$	R
11_1332	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_3\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1333	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_2 ight)$	R
11_2223	$\left(\ell_2\gamma_\mu\ell_2 ight)\left(\ell_2\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_2233	$\left(\ell_2\gamma_\mu\ell_2 ight)\left(\ell_3\gamma^\mu\ell_3 ight)$	R
11_2323	$\left(\ell_2 \gamma_\mu \ell_3 ight) \left(\ell_2 \gamma^\mu \ell_3 ight)$	С
11_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{\ell}_3\gamma^\mu\ell_2 ight)$	R
11_2333	$\left(\ell_{2}\gamma_{\mu}\ell_{3} ight)\left(\ell_{3}\gamma^{\mu}\ell_{3} ight)$	$^{\mathrm{C}}$
11_3333	$\left(\ell_3\gamma_\mu\ell_3 ight)\left(\ell_3\gamma^\mu\ell_3 ight)$	R
qq1_1111	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{q}_1\gamma^{\mu}q_1 ight)$	R
qq1_1112	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{q}_1\gamma^{\mu}q_2 ight)$	C
qq1_1113	$(ar{q}_1\gamma_\mu q_1)(ar{q}_1\gamma^\mu q_3)$	C
qq1_1122	$(ar{q}_1\gamma_\mu q_1)(ar{q}_2\gamma^\mu q_2)$	R
qq1_1123	$(ar{q}_1\gamma_\mu q_1)(ar{q}_2\gamma^\mu q_3)$	С
qq1_1133	$(\bar{q}_1\gamma_\mu q_1)(\bar{q}_3\gamma^\mu q_3)$	R
qq1_1212	$(ar{q}_1\gamma_\mu q_2)(ar{q}_1\gamma^\mu q_2)$	C C
qq1_1213	$\left(ar{q}_1\gamma_{\mu}q_2\right)\left(ar{q}_1\gamma^{\mu}q_3\right)$	R
qq1_1221 qq1_1222	$egin{aligned} \left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_1 ight) \ \left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight) \end{aligned}$	C
qq1_1223	$(q_1\gamma_\mu q_2) (q_2\gamma^\mu q_2) \ (ar q_1\gamma_\mu q_2) (ar q_2\gamma^\mu q_3)$	C
qq1_1231	$(q_1\gamma_\mu q_2) (q_2\gamma^\mu q_3) \ (ar q_1\gamma_\mu q_2) (ar q_3\gamma^\mu q_1)$	C
qq1_1231 qq1_1232	$(q_1\gamma_\mu q_2) (q_3\gamma^\mu q_1) \ (ar q_1\gamma_\mu q_2) (ar q_3\gamma^\mu q_2)$	C
qq1_1232 qq1_1233	$\left(ar{q}_1\gamma_{\mu}q_2\right)\left(ar{q}_3\gamma^{\mu}q_3 ight) \ \left(ar{q}_1\gamma_{\mu}q_2\right)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	C
qq1_1313	$\left(ar{q}_1\gamma_{\mu}q_2\right)\left(q_3\gamma_{\mu}q_3\right) \\ \left(ar{q}_1\gamma_{\mu}q_3\right)\left(ar{q}_1\gamma^{\mu}q_3\right)$	Č
44	(AT (hA2) (AT (A2)	\mathcal{C}

WC name	Operator	Type
qq1_1322	$(\bar{q}_1\gamma_\mu q_3)(\bar{q}_2\gamma^\mu q_2)$	С
qq1_1323	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_1331	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_1 ight)$	R
qq1_1332	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_2 ight)$	\mathbf{C}
qq1_1333	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_2222	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	${ m R}$
qq1_2223	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_2233	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	R
qq1_2323	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	\mathbf{C}
qq1_2332	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_2 ight)$	R
qq1_2333	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_3333	$\left(ar{q}_{3}\gamma_{\mu}q_{3} ight)\left(ar{q}_{3}\gamma^{\mu}q_{3} ight)$	R
qq3_1111	$\left(ar{q}_{1}\gamma_{\mu} au^{I}_{}q_{1} ight)\left(ar{q}_{1}\gamma^{\mu} au^{I}_{}q_{1} ight)$	R
qq3_1112	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	\mathbf{C}
qq3_1113	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_1122	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	R
qq3_1123	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
qq3_1133	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
qq3_1212	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
qq3_1213	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
qq3_1221	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	R
qq3_1222	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
qq3_1223	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
qq3_1231	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
qq3_1232	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
qq3_1233	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_1313	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_1322	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	\mathbf{C}
qq3_1323	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_1331	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	R
qq3_1332	$\left\langle ar{q}_{1}\gamma_{\mu} au^{I}q_{3} ight angle \left\langle ar{q}_{3}\gamma^{\mu} au^{I}q_{2} ight angle$	\mathbf{C}
qq3_1333	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_2222	$\left(ar{q}_2\gamma_{\mu} au^Iq_2 ight)\left(ar{q}_2\gamma^{\mu} au^Iq_2 ight)$	R
qq3_2223	$\left(ar{q}_2\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_2233	$\left\langle ar{q}_{2}\gamma_{\mu} au^{I}q_{2} ight angle \left\langle ar{q}_{3}\gamma^{\mu} au^{I}q_{3} ight angle$	R
qq3_2323	$\left(ar{q}_2\gamma_\mu au^Iq_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_2332	$\left(ar{q}_2\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	R
qq3_2333	$\left(ar{q}_2\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
qq3_3333	$\left(ar{q}_3\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	\mathbf{R}
lq1_1111	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{q}_1\gamma^\mu q_1)$	${ m R}$
lq1_1112	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{q}_1\gamma^\mu q_2)$	$^{\mathrm{C}}$
lq1_1113	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{q}_1\gamma^\mu q_3) \ (ar{\ell}_1\gamma_\mu\ell_1)(ar{q}_1\gamma^\mu q_3)$	$\dot{ ext{C}}$
lq1_1122	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{q}_1\gamma^\mu q_2)$	$^{\circ}_{ m R}$
-4	$(^{\circ}1/\mu^{\circ}1)(42/42)$	16

$egin{array}{l} \left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{q}_2\gamma^\mu q_3 ight) \ \left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{q}_3\gamma^\mu q_3 ight) \end{array}$	C
$(\bar{\ell}_1 \gamma, \ell_1) (\bar{q}_2 \gamma^{\mu} q_2)$	
$\binom{\sim 1}{4} \binom{\mu \sim 1}{43} \binom{43}{43}$	\mathbf{R}
$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_1\gamma^{\mu}q_2 ight)$	C
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_1\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_2\gamma^{\mu}q_1 ight)$	C
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	C
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_3\gamma^{\mu}q_1 ight)$	C
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_3\gamma^{\mu}q_2 ight)$	C
$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	C
$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_{\mu}\ell_3 ight)\left(ar{q}_2\gamma^{\mu}q_1 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_{\mu}\ell_3 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	C
$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_1 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_2 ight)$	C
$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	R
$\left(ar{\ell}_2\gamma_{\mu}\ell_2 ight)\left(ar{q}_1\gamma^{\mu}q_2 ight)$	\mathbf{C}
$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_2\gamma_{\mu}\ell_2 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	R
$\left(ar{\ell}_2\gamma_{\mu}\ell_2 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	\mathbf{C}
$\left(ar{\ell}_2\gamma_{\mu}\ell_2 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	R
$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	\mathbf{C}
$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	\mathbf{C}
$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	\mathbf{C}
$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_1 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	$^{\mathrm{C}}$
	\mathbf{C}
$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_1 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_2\gamma_{\mu}\ell_3 ight)\left(ar{q}_3\gamma^{\mu}q_2 ight)$	$^{\mathrm{C}}$
$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
	R
$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	\mathbf{C}
$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	\mathbf{C}
$\left(ar{\ell}_3\gamma_{\mu}\ell_3 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	R
$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	\mathbf{C}
$\left(\ell_3 \gamma_\mu \ell_3 ight) \left(ar{q}_3 \gamma^\mu q_3 ight)$	R
$\left(ar{\ell_1} \gamma_\mu au^I \ell_1 ight) \left(ar{q}_1 \gamma^\mu au^I q_1 ight)$	R
	$\begin{array}{l} \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{1}\gamma^{\mu}q_{3}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{1}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{3}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{3}\gamma^{\mu}q_{1}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{3}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{3}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{1}\gamma^{\mu}q_{3}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{1}\gamma^{\mu}q_{3}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{1}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{3}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{3}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{1}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{3}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{1}\gamma^{\mu}q_{1}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{1}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{2}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{1}\gamma^{\mu}q_{3}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{1}\gamma^{\mu}q_{3}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{2}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{3}\right)\left(\bar{q}_{3}\gamma^{\mu}q_{2}\right) \\ \left(\bar{\ell}_{2}\gamma_{\mu}\ell_{3}\right)\left(\bar{\ell}_{3}\gamma_{\mu}\ell_{3}\right) \\ \left(\bar{\ell}_{3}\gamma_{\mu}\ell_{$

WC name	Operator	Type
1q3_1112	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	С
lq3_1113	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1122	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	R
lq3_1123	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1133	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
lq3_1211	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_1212	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1213	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1221	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_1222	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1223	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1231	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_1232	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1233	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1311	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_1312	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1313	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1321	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_1322	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1323	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1331	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	\mathbf{C}
lq3_1332	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1333	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
lq3_2211	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	R
1q3_2212	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	\mathbf{C}
lq3_2213	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
1q3_2222	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	R
1q3_2223	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	C
1q3_2233	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
lq3_2311	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	C
lq3_2312	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	С
1q3_2313	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	C
1q3_2321	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	\mathbf{C}
1q3_2322	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	\mathbf{C}
1q3_2323	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	\mathbf{C}
lq3_2331	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	\mathbf{C}
1q3_2332	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
1q3_2333	$\left(ar{\ell}_2 \gamma_\mu au^I \ell_3 ight) \left(ar{q}_3 \gamma^\mu au^I q_3 ight)$	\mathbf{C}
lq3_3311	$\left(ar{\ell}_3 \gamma_\mu au^I \ell_3 ight) \left(ar{q}_1 \gamma^\mu au^I q_1 ight)$	${ m R}$
1q3_3312	$\left(ar{\ell}_3\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_3313	$\begin{array}{c} (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{3}\gamma^{\mu}\tau^{I}q_{3}) \\ (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{3}\gamma^{\mu}\tau^{I}q_{3}) \\ (\bar{\ell}_{3}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{1}\gamma^{\mu}\tau^{I}q_{1}) \\ (\bar{\ell}_{3}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{1}\gamma^{\mu}\tau^{I}q_{2}) \\ (\bar{\ell}_{3}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{1}\gamma^{\mu}\tau^{I}q_{3}) \\ (\bar{\ell}_{3}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{1}\gamma^{\mu}\tau^{I}q_{3}) \end{array}$	\mathbf{C}
1q3_3322	$\left(ar{\ell}_3\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	\mathbf{R}
	•	

WC name	Operator	Type
1q3_3323	$\left(ar{\ell}_3\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	С
1q3_3333	$\left(ar{\ell}_3\gamma_{\mu} au^I\ell_3 ight)\left(ar{q}_3\gamma^{\mu} au^Iq_3 ight)$	R
ee_1111	$(ar{e}_1\gamma_\mu e_1)(ar{e}_1\gamma^\mu e_1)$	${ m R}$
ee_1112	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	\mathbf{C}
ee_1113	$(ar{e}_1\gamma_\mu e_1)(ar{e}_1\gamma^\mu e_3)$	$^{\mathrm{C}}$
ee_1122	$(ar{e}_1\gamma_\mu e_1)(ar{e}_2\gamma^\mu e_2)$	R
ee_1123	$(ar{e}_1\gamma_\mu e_1)(ar{e}_2\gamma^\mu e_3)$	$^{\mathrm{C}}$
ee_1133	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
ee_1212	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	\mathbf{C}
ee_1213	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_1222	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	\mathbf{C}
ee_1223	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_1232	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_3\gamma^{\mu}e_2 ight)$	\mathbf{C}
ee_1233	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_1313	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_1323	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_1333	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_2222	$(ar{e}_2\gamma_\mu e_2)(ar{e}_2\gamma^\mu e_2)$	R
ee_2223	$(ar{e}_2\gamma_\mu e_2)(ar{e}_2\gamma^\mu e_3)$	$^{\mathrm{C}}$
ee_2233	$(ar{e}_2\gamma_\mu e_2)(ar{e}_3\gamma^\mu e_3)$	R
ee_2323	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_2333	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_3333	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	${ m R}$
uu_1111	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	R
uu_1112	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	\mathbf{C}
uu_1113	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	\mathbf{C}
uu_1122	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	R
uu_1123	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
uu_1133	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_3\gamma^\mu u_3)$	${ m R}$
uu_1212	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	\mathbf{C}
uu_1213	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	\mathbf{C}
uu_1221	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	R
uu_1222	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	\mathbf{C}
uu_1223	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
uu_1231	$(ar{u}_1\gamma_\mu u_2)(ar{u}_3\gamma^\mu u_1)$	$^{\mathrm{C}}$
uu_1232	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
uu_1233	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{C}
uu_1313	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	\mathbf{C}
uu_1322	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
uu_1323	$(ar{u}_1\gamma_\mu u_3)(ar{u}_2\gamma^\mu u_3)$	$^{\mathrm{C}}$
uu_1331	$(ar{u}_1\gamma_\mu u_3)(ar{u}_3\gamma^\mu u_1)$	R
uu_1332	$(ar{u}_1\gamma_\mu u_3)(ar{u}_3\gamma^\mu u_2)$	C
uu_1333	$(\bar{u}_1\gamma_\mu u_3)(\bar{u}_3\gamma^\mu u_3)$	\mathbf{C}
uu_2222	$(ar{u}_2\gamma_\mu u_2)(ar{u}_2\gamma^\mu u_2)$	R

WC name	Operator	Type
uu_2223	$(\bar{u}_2\gamma_\mu u_2)(\bar{u}_2\gamma^\mu u_3)$	С
uu_2233	$\left(\bar{u}_2\gamma_{\mu}u_2\right)\left(\bar{u}_3\gamma^{\mu}u_3\right)$	R
uu_2323	$(\bar{u}_2\gamma_\mu u_3)(\bar{u}_2\gamma^\mu u_3)$	С
uu_2332	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	R
uu_2333	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	C
uu_3333	$(ar{u}_3\gamma_\mu u_3)(ar{u}_3\gamma^\mu u_3)$	R
dd_1111	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
dd_1112	$\left(ar{d}_{1}\gamma_{\mu}d_{1} ight) \left(ar{d}_{1}\gamma^{\mu}d_{2} ight)$	С
dd_1113	$\left(ar{d}_1 \gamma_\mu d_1 ight) \left(ar{d}_1 \gamma^\mu d_3 ight)$	С
dd_1122	$\left(ar{d}_1 \gamma_\mu d_1 ight) \left(ar{d}_2 \gamma^\mu d_2 ight)$	R
dd_1123	$\left(ar{d}_1 \gamma_\mu d_1 ight) \left(ar{d}_2 \gamma^\mu d_3 ight)$	С
dd_1133	$\left(ar{d}_{1}\gamma_{\mu}d_{1} ight) \left(ar{d}_{3}\gamma^{\mu}d_{3} ight)$	R
dd_1212	$\left(ar{d}_1 \gamma_\mu d_2 ight) \left(ar{d}_1 \gamma^\mu d_2 ight)$	С
dd_1213	$\left(ar{d}_1 \gamma_\mu d_2 ight) \left(ar{d}_1 \gamma^\mu d_3 ight)$	С
dd_1221	$\left(ar{d}_1 \gamma_\mu d_2 ight) \left(ar{d}_2 \gamma^\mu d_1 ight)$	R
dd_1222	$\left(ar{d}_1\gamma_{\mu}d_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	С
dd_1223	$\left(ar{d}_1\gamma_{\mu}d_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	С
dd_1231	$\left(ar{d}_1\gamma_{\mu}d_2 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	\mathbf{C}
dd_1232	$\left(ar{d}_1\gamma_{\mu}d_2 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	\mathbf{C}
dd_1233	$\left(ar{d}_1\gamma_{\mu}d_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	С
dd_1313	$\left(ar{d}_1\gamma_{\mu}d_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
dd_1322	$\left(ar{d}_1\gamma_{\mu}d_3 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
dd_1323	$\left(ar{d}_1\gamma_{\mu}d_3 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	C
dd_1331	$\left(ar{d}_1\gamma_{\mu}d_3 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	R
dd_1332	$\left(ar{d}_1\gamma_{\mu}d_3 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	\mathbf{C}
dd_1333	$\left(ar{d}_1\gamma_{\mu}d_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	С
dd_2222	$\left(ar{d}_2\gamma_{\mu}d_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	R
dd_2223	$\left(ar{d}_2\gamma_{\mu}d_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	С
dd_2233	$\left(ar{d}_2\gamma_{\mu}d_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R
dd_2323	$\left(ar{d}_2\gamma_\mu d_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	C
dd_2332	$\left(ar{d}_{2}\gamma_{\mu}d_{3} ight)\left(ar{d}_{3}\gamma^{\mu}d_{2} ight)$	R
dd_2333	$\left(ar{d}_2\gamma_{\mu}d_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	С
dd_3333	$\left(ar{d}_3\gamma_\mu d_3 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
eu_1111	$(ar{e}_1\gamma_\mu e_1)(ar{u}_1\gamma^\mu u_1)$	R
eu_1112	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	C
eu_1113	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	С
eu_1122	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	R
eu_1123	$(\bar{e}_1\gamma_\mu e_1)(\bar{u}_2\gamma^\mu u_3)$	C
eu_1133	$(ar{e}_1\gamma_{\mu}e_1)(ar{u}_3\gamma^{\mu}u_3)$	R
eu_1211	$(ar{e}_1\gamma_\mu e_2)(ar{u}_1\gamma^\mu u_1)$	C
eu_1212	$(ar{e}_1\gamma_\mu e_2)(ar{u}_1\gamma^\mu u_2)$	C
eu_1213	$(ar{e}_1\gamma_\mu e_2)(ar{u}_1\gamma^\mu u_3)$	С
eu_1221	$(\bar{e}_1\gamma_\mu e_2)(\bar{u}_2\gamma^\mu u_1)$	C

WC name	Operator	Type
eu_1222	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	\mathbf{C}
eu_1223	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
eu_1231	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{u}_3\gamma^{\mu}u_1 ight)$	\mathbf{C}
eu_1232	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	\mathbf{C}
eu_1233	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{C}
eu_1311	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	\mathbf{C}
eu_1312	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	\mathbf{C}
eu_1313	$\left(\bar{e}_1\gamma_{\mu}e_3\right)\left(\bar{u}_1\gamma^{\mu}u_3\right)$	$^{\mathrm{C}}$
eu_1321	$(\bar{e}_1\gamma_\mu e_3)(\bar{u}_2\gamma^\mu u_1)$	$^{\mathrm{C}}$
eu_1322	$\left(\bar{e}_1\gamma_{\mu}e_3\right)\left(\bar{u}_2\gamma^{\mu}u_2\right)$	$^{\mathrm{C}}$
eu_1323	$(\bar{e}_1\gamma_\mu e_3)(\bar{u}_2\gamma^\mu u_3)$	$^{\mathrm{C}}$
eu_1331	$(\bar{e}_1\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_1)$	$^{\mathrm{C}}$
eu_1332	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	C
eu_1333	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{C}
eu_2211	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	R
eu_2212	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	C
eu_2213	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$\stackrel{ ext{C}}{=}$
eu_2222	$(ar{e}_2\gamma_\mu e_2)(ar{u}_2\gamma^\mu u_2)$	$\stackrel{ ext{R}}{\sim}$
eu_2223	$(ar{e}_2\gamma_\mu e_2)(ar{u}_2\gamma^\mu u_3)$	С
eu_2233	$(ar{e}_2\gamma_\mu e_2)(ar{u}_3\gamma^\mu u_3)$	R
eu_2311	$(ar{e}_2\gamma_\mu e_3)(ar{u}_1\gamma^\mu u_1)$	С
eu_2312	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_1\gamma^\mu u_2)$	С
eu_2313	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_1\gamma^\mu u_3)$	С
eu_2321	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_2\gamma^\mu u_1)$	С
eu_2322	$(\bar{e}_2\gamma_{\mu}e_3)(\bar{u}_2\gamma^{\mu}u_2)$	С
eu_2323	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_2\gamma^\mu u_3)$	С
eu_2331	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_1)$	C C
eu_2332	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_2)$	C
eu_2333	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_3)$	R
eu_3311 eu_3312	$(ar{e}_3\gamma_\mu e_3)(ar{u}_1\gamma^\mu u_1)$	C C
eu_3313	$egin{array}{l} (ar{e}_3 \gamma_{\mu} e_3) (ar{u}_1 \gamma^{\mu} u_2) \ (ar{e}_3 \gamma_{\mu} e_3) (ar{u}_1 \gamma^{\mu} u_3) \end{array}$	C
eu_3313 eu_3322	$(ar{e}_3 \gamma_\mu e_3) (ar{u}_1 \gamma^\mu u_3) (ar{e}_3 \gamma_\mu e_3) (ar{u}_2 \gamma^\mu u_2)$	R
eu_3323	$(ar{e}_3 \gamma_\mu e_3) (ar{u}_2 \gamma^\mu u_2) \ (ar{e}_3 \gamma_\mu e_3) (ar{u}_2 \gamma^\mu u_3)$	C
eu_3333	$(ar{e}_3 \gamma_\mu e_3) (ar{u}_2 \gamma^\mu u_3) \ (ar{e}_3 \gamma_\mu e_3) (ar{u}_3 \gamma^\mu u_3)$	R
ed_5555	$(ar{e}_3 / \mu e_3) \left(ar{d}_1 \gamma^{\mu} d_1 ight) \left(ar{d}_1 \gamma^{\mu} d_1 ight)$	R
ed_1112	$(ar{e}_1\gamma_\mu e_1) \left(ar{d}_1\gamma^\mu d_1 ight) \left(ar{e}_1\gamma_\mu e_1 ight) \left(ar{d}_1\gamma^\mu d_2 ight)$	C
ed_1112 ed_1113	$egin{array}{c} (ar{e}_1\gamma_\mu e_1) & (ar{d}_1\gamma^\mu d_2) \ (ar{e}_1\gamma_\mu e_1) & (ar{d}_1\gamma^\mu d_3) \end{array}$	C
ed_1113 ed_1122	$egin{array}{l} (e_1\gamma_\mu e_1) \ (a_1\gamma^\mu a_3) \ (ar e_1\gamma_\mu e_1) \ (ar d_2\gamma^\mu d_2) \end{array}$	R
	$egin{array}{l} (e_1\gamma_\mu e_1) & (a_2\gamma^\mu a_2) \ (ar e_1\gamma_\mu e_1) & (ar d_2\gamma^\mu d_3) \end{array}$	C C
ed_1123	$(c_1, \mu c_1) (a_2, \mu a_3)$	R
ed_1133	$(\bar{e}_1\gamma_{\mu}e_1)(\bar{d}_3\gamma^{\mu}d_3)$	C C
ed_1211	$(\bar{e}_1\gamma_{\mu}e_2)(\bar{d}_1\gamma^{\mu}d_1)$	
ed_1212	$(\bar{e}_1\gamma_\mu e_2) \left(\bar{d}_1\gamma^\mu d_2\right)$	C
ed_1213	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	С

WC name	Operator	Type
ed_1221	$(\bar{e}_1\gamma_{\mu}e_2)\left(\bar{d}_2\gamma^{\mu}d_1 ight)$	С
ed_1222	$(ar{e}_1\gamma_{\mu}e_2)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_1223	$(ar{e}_1\gamma_\mu e_2)ig(ar{d}_2\gamma^\mu d_3ig)$	\mathbf{C}
ed_1231	$(ar{e}_1\gamma_\mu e_2)ig(ar{d}_3\gamma^\mu d_1ig)$	\mathbf{C}
ed_1232	$(ar{e}_1\gamma_{\mu}e_2)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_1233	$(ar{e}_1\gamma_{\mu}e_2)(ar{d}_3\gamma^{\mu}d_3)$	\mathbf{C}
ed_1311	$(ar{e}_1\gamma_{\mu}e_3)ig(ar{d}_1\gamma^{\mu}d_1ig)$	\mathbf{C}
ed_1312	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_1313	$(ar{e}_1\gamma_\mu e_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
ed_1321	$(ar{e}_1\gamma_\mu e_3)ig(ar{d}_2\gamma^\mu d_1ig)$	C
ed_1322	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
ed_1323	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_1331	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
ed_1332	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
ed_1333	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_2211	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
ed_2212	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
ed_2213	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_2222	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	R
ed_2223	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_2233	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R
ed_2311	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
ed_2312	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_2313	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
ed_2321	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	\mathbf{C}
ed_2322	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
ed_2323	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_2331	$(ar{e}_2\gamma_{\mu}e_3)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
ed_2332	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
ed_2333	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_3311	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
ed_3312	$(ar{e}_3\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_3313	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_3322	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	R
ed_3323	$(ar{e}_3\gamma_{\mu}e_3)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
ed_3333	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(d_{ar{3}}\gamma^{\mu}d_3 ight)$	R
ud1_1111	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
ud1_1112	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
ud1_1113	$(ar{u}_1\gamma_{\mu}u_1)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ud1_1122	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	R
ud1_1123	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ud1_1133	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	${ m R}$

$\begin{array}{c} \mathbf{ud1} \ 1211 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_1) & \mathbf{C} \\ \mathbf{ud1} \ 1212 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1213 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1221 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1222 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1222 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1223 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1231 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1232 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1233 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1233 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1231 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1311 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1312 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1313 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_1) & \mathbf{C} \\ \mathbf{ud1} \ 1313 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_1) & \mathbf{C} \\ \mathbf{ud1} \ 1322 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1322 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1331 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1332 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1333 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1333 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1333 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1221 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1221 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_2) & \mathbf{C} \\ \mathbf{ud1} \ 1221 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 1221 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12213 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12213 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12213 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12313 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12313 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12313 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12322 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & \mathbf{C} \\ \mathbf{ud1} \ 12322 & (\bar{u}_2\gamma_$	WC name	Operator	Type
$\begin{array}{c} {\rm ud1}{}_{1}1212 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1213 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{1}1221 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_2\gamma^\mu d_1) \\ {\rm ud1}{}_{1}1222 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1223 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1223 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_3\gamma^\mu d_1) \\ {\rm ud1}{}_{1}1232 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1232 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1232 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1233 & (\bar{u}_1\gamma_\mu u_2)(\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1231 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_1\gamma^\mu d_1) \\ {\rm ud1}{}_{1}1311 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1312 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1312 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{1}1322 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1322 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1322 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1}{}_{1}1332 & (\bar{u}_1\gamma_\mu u_3)(\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1}{}_{2}211 & (\bar{u}_2\gamma_\mu u_2)(\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1}{}_{2}212 & (\bar{u}_2\gamma_\mu u_2)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{2}212 & (\bar{u}_2\gamma_\mu u_2)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{2}222 & (\bar{u}_2\gamma_\mu u_2)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{2}222 & (\bar{u}_2\gamma_\mu u_2)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{2}233 & (\bar{u}_2\gamma_\mu u_2)(\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1}{}_{2}231 & (\bar{u}_2\gamma_\mu u_3)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{2}231 & (\bar{u}_2\gamma_\mu u_3)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{2}232 & (\bar{u}_2\gamma_\mu u_3)(\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1}{}_{2}232 & (\bar{u}_2\gamma_\mu u_3)(\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1}{}_{2}232 & $	ud1 1211	$(\bar{u}_1\gamma_{\mu}u_2)(\bar{d}_1\gamma^{\mu}d_1)$	C
$\begin{array}{c} {\rm ud1_1213} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_1221} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_1) \\ {\rm ud1_1222} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1223} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_1223} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_1) \\ {\rm ud1_1231} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_1) \\ {\rm ud1_1232} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1_1233} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_1233} & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_1311} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ {\rm ud1_1312} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_1313} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_1312} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_1322} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1322} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1322} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1332} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_1333} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1_1332} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1_1333} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2211} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) \\ {\rm ud1_2212} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_2213} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_2222} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_2222} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_2233} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2233} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2311} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2312} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2322} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2323} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2322} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2323} & (\bar{u}_2\gamma_\mu u_3)$			
$\begin{array}{c} \mathrm{ud1}_1221 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_1) \\ \mathrm{ud1}_1222 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_1233 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_1231 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_1) \\ \mathrm{ud1}_1232 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1233 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1233 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1311 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_1312 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_1313 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_1321 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_1) \\ \mathrm{ud1}_1322 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_1323 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_1323 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_1) \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_2211 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2212 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2212 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2213 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2223 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2233 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2313 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_3312 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_3312 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_3322 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_$	_	· · · · · · · · · · · · · · · · · · ·	
$\begin{array}{c} \mathrm{udl}_{-1222} & (\bar{u}_{1}\gamma_{\mu}u_{2}) (\bar{d}_{2}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-1223} & (\bar{u}_{1}\gamma_{\mu}u_{2}) (\bar{d}_{2}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-1231} & (\bar{u}_{1}\gamma_{\mu}u_{2}) (\bar{d}_{3}\gamma^{\mu}d_{1}) \\ \mathrm{udl}_{-1232} & (\bar{u}_{1}\gamma_{\mu}u_{2}) (\bar{d}_{3}\gamma^{\mu}d_{1}) \\ \mathrm{udl}_{-1233} & (\bar{u}_{1}\gamma_{\mu}u_{2}) (\bar{d}_{3}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-1233} & (\bar{u}_{1}\gamma_{\mu}u_{2}) (\bar{d}_{3}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-1311} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{1}\gamma^{\mu}d_{1}) \\ \mathrm{udl}_{-1312} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{1}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-1313} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{1}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-1312} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{2}\gamma^{\mu}d_{1}) \\ \mathrm{udl}_{-1322} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{2}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-1323} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{2}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-1332} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{2}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-1333} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{3}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-1333} & (\bar{u}_{1}\gamma_{\mu}u_{3}) (\bar{d}_{3}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-2211} & (\bar{u}_{2}\gamma_{\mu}u_{3}) (\bar{d}_{3}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-2212} & (\bar{u}_{2}\gamma_{\mu}u_{2}) (\bar{d}_{1}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-2213} & (\bar{u}_{2}\gamma_{\mu}u_{2}) (\bar{d}_{1}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-2222} & (\bar{u}_{2}\gamma_{\mu}u_{2}) (\bar{d}_{1}\gamma^{\mu}d_{2}) \\ \mathrm{udl}_{-2223} & (\bar{u}_{2}\gamma_{\mu}u_{2}) (\bar{d}_{2}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-2233} & (\bar{u}_{2}\gamma_{\mu}u_{2}) (\bar{d}_{2}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-2312} & (\bar{u}_{2}\gamma_{\mu}u_{3}) (\bar{d}_{2}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-2312} & (\bar{u}_{2}\gamma_{\mu}u_{3}) (\bar{d}_{2}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-2322} & (\bar{u}_{2}\gamma_{\mu}u_{3}) (\bar{d}_{3}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-2323} & (\bar{u}_{2}\gamma_{\mu}u_{3}) (\bar{d}_{3}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-2333} & (\bar{u}_{2}\gamma_{\mu}u_{3}) (\bar{d}_{3}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-3332} & (\bar{u}_{2}\gamma_{\mu}u_{3}) (\bar{d}_{3}\gamma^{\mu}d_{3}) \\ \mathrm{udl}_{-3322} & (\bar{u}_{3}$	_		
$\begin{array}{c} \mathrm{ud1}_1223 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_1231 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_1) & C \\ \mathrm{ud1}_1232 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_2) & C \\ \mathrm{ud1}_1233 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_1233 & (\bar{u}_1\gamma_{\mu}u_2) (\bar{d}_3\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_1311 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_1) & C \\ \mathrm{ud1}_1312 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_2) & C \\ \mathrm{ud1}_1313 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_2) & C \\ \mathrm{ud1}_1321 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_1) & C \\ \mathrm{ud1}_1322 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_2) & C \\ \mathrm{ud1}_1323 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_1331 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_1) & C \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_1) & C \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_2211 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_1) & R \\ \mathrm{ud1}_2212 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_2) & C \\ \mathrm{ud1}_2213 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_2) & C \\ \mathrm{ud1}_2223 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_2233 & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_2311 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & R \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_1) & C \\ \mathrm{ud1}_2313 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_2) & C \\ \mathrm{ud1}_2313 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_2321 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_3312 & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_3312 & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & C \\ \mathrm{ud1}_3322 & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{$	_		
$\begin{array}{c} \mathrm{ud1}_1231 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_1) & C \\ \mathrm{ud1}_1232 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_1233 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_1311 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) & C \\ \mathrm{ud1}_1312 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) & C \\ \mathrm{ud1}_1313 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_1321 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_1322 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) & C \\ \mathrm{ud1}_1322 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) & C \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_1) & C \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_2211 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) & R \\ \mathrm{ud1}_2212 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) & C \\ \mathrm{ud1}_2213 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) & C \\ \mathrm{ud1}_2222 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) & R \\ \mathrm{ud1}_2223 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) & R \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) & C \\ \mathrm{ud1}_2311 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) & C \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) & C \\ \mathrm{ud1}_2321 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) & C \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2321 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2333 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3311 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3322 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3333$	_		
$\begin{array}{c} \mathrm{ud1}_1232 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1233 & (\bar{u}_1\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_1311 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_1312 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_1313 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_1321 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_1) \\ \mathrm{ud1}_1322 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_1323 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_1331 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2211 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2212 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2213 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2222 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2223 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2311 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2333 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3311 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_$	_		
$\begin{array}{c} \mathrm{ud1}_1233 & (\overline{u}_1\gamma_\mu u_2) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_1311 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_1) & C \\ \mathrm{ud1}_1312 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_2) & C \\ \mathrm{ud1}_1313 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_1321 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_2\gamma^\mu d_1) & C \\ \mathrm{ud1}_1322 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_2\gamma^\mu d_2) & C \\ \mathrm{ud1}_1323 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_1331 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_1332 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_1333 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_1333 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_2133 & (\overline{u}_1\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_2) & C \\ \mathrm{ud1}_2211 & (\overline{u}_2\gamma_\mu u_2) (\overline{d}_1\gamma^\mu d_1) & R \\ \mathrm{ud1}_2212 & (\overline{u}_2\gamma_\mu u_2) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2213 & (\overline{u}_2\gamma_\mu u_2) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2222 & (\overline{u}_2\gamma_\mu u_2) (\overline{d}_2\gamma^\mu d_2) & R \\ \mathrm{ud1}_2223 & (\overline{u}_2\gamma_\mu u_2) (\overline{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2333 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & R \\ \mathrm{ud1}_2311 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_1) & C \\ \mathrm{ud1}_2312 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2313 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2313 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2321 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2321 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_1\gamma^\mu d_3) & C \\ \mathrm{ud1}_2322 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2331 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2332 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_2\gamma^\mu d_3) & C \\ \mathrm{ud1}_2333 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3312 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3313 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3313 & (\overline{u}_2\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3313 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3313 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3312 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3313 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3312 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3322 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3323 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3323 & (\overline{u}_3\gamma_\mu u_3) (\overline{d}_3\gamma^\mu d_3) & C \\ \mathrm{ud1}_3333$			
$\begin{array}{c} {\rm ud1_1311} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_1) \\ {\rm ud1_1312} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_2) \\ {\rm ud1_1313} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_1321} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_2\gamma^\mu d_1) \\ {\rm ud1_1322} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_2\gamma^\mu d_2) \\ {\rm ud1_1323} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_2\gamma^\mu d_3) \\ {\rm ud1_1323} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_1331} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_1332} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_2) \\ {\rm ud1_1333} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_2) \\ {\rm ud1_1333} & (\overline{u}_1\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_2211} & (\overline{u}_2\gamma_\mu u_2) \ (\overline{d}_1\gamma^\mu d_1) \\ {\rm ud1_2212} & (\overline{u}_2\gamma_\mu u_2) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_2213} & (\overline{u}_2\gamma_\mu u_2) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_2222} & (\overline{u}_2\gamma_\mu u_2) \ (\overline{d}_2\gamma^\mu d_2) \\ {\rm ud1_2223} & (\overline{u}_2\gamma_\mu u_2) \ (\overline{d}_2\gamma^\mu d_3) \\ {\rm ud1_2233} & (\overline{u}_2\gamma_\mu u_2) \ (\overline{d}_2\gamma^\mu d_3) \\ {\rm ud1_2311} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_1) \\ {\rm ud1_2312} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_2312} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_2313} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_2321} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_2322} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_1\gamma^\mu d_3) \\ {\rm ud1_2323} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_2\gamma^\mu d_3) \\ {\rm ud1_2323} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_2\gamma^\mu d_3) \\ {\rm ud1_2323} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_2\gamma^\mu d_3) \\ {\rm ud1_2331} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_2\gamma^\mu d_3) \\ {\rm ud1_2332} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_2333} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_2333} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_2333} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_2333} & (\overline{u}_2\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3311} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3312} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3313} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3312} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3313} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3312} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3322} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\ {\rm ud1_3323} & (\overline{u}_3\gamma_\mu u_3) \ (\overline{d}_3\gamma^\mu d_3) \\$		`	
$\begin{array}{c} {\rm ud1_1312} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_1313} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_1321} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_1) \\ {\rm ud1_1322} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1323} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1333} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_1332} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_1) \\ {\rm ud1_1332} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1_1333} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1_211} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) \\ {\rm ud1_2212} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_2213} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_2222} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_2222} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_2233} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2311} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ {\rm ud1_2312} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_2313} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_2322} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_2322} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2323} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2323} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2332} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2332} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2332} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3313} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3313} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3313} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3322} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3323} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3333} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ $:	
$\begin{array}{c} {\rm ud1_1313} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_1321} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_1) \\ {\rm ud1_1322} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1323} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_1331} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_1) \\ {\rm ud1_1332} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_1) \\ {\rm ud1_1332} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ {\rm ud1_1333} & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2211} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) \\ {\rm ud1_2212} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_2213} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_2222} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_2223} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_2233} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2311} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ {\rm ud1_2312} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ {\rm ud1_2313} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ {\rm ud1_2322} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2322} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_2323} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2323} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ {\rm ud1_2323} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2331} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2332} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2333} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2332} & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_2332} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3311} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3312} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3313} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3322} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3323} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3323} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3333} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3333} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ {\rm ud1_3333} & (\bar{u}_3\gamma_\mu u_3)$			
$\begin{array}{c} {\rm ud1_1321} & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_1) & {\rm C} \\ {\rm ud1_1322} & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_1323} & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_1331} & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_1) & {\rm C} \\ {\rm ud1_1332} & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_1333} & (\bar{u}_1\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_2211} & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_1) & {\rm R} \\ {\rm ud1_2212} & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2213} & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_1\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_2222} & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_2) & {\rm R} \\ {\rm ud1_2223} & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_2233} & (\bar{u}_2\gamma_{\mu}u_2) (\bar{d}_2\gamma^{\mu}d_3) & {\rm R} \\ {\rm ud1_2311} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_1) & {\rm C} \\ {\rm ud1_2312} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_1) & {\rm C} \\ {\rm ud1_2312} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2313} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_1\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2313} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2322} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2322} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2322} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2333} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2332} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_2\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_2332} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_1) & {\rm C} \\ {\rm ud1_2332} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_2) & {\rm C} \\ {\rm ud1_2333} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_2333} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_2332} & (\bar{u}_2\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3311} & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3312} & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) (\bar{d}_3\gamma^{\mu}d_3) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) ($			\mathbf{C}
$\begin{array}{c} \mathrm{ud1}_1322 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_1323 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_1331 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_1) \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2211 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2212 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2213 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_2222 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2223 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2233 & (\bar{u}_2\gamma_\mu u_2) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2311 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2313 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_2321 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_1) \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3311 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3312 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_3313 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_3322 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_$	_	:	$^{\mathrm{C}}$
$\begin{array}{c} {\rm ud1_1323} \qquad & (\bar{u}_1\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_1331} \qquad & (\bar{u}_1\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_1\right) \\ {\rm ud1_1332} \qquad & (\bar{u}_1\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_2\right) \\ {\rm ud1_1333} \qquad & (\bar{u}_1\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_3\right) \\ {\rm ud1_2211} \qquad & (\bar{u}_2\gamma_\mu u_2) \left(\bar{d}_1\gamma^\mu d_1\right) \\ {\rm ud1_2212} \qquad & (\bar{u}_2\gamma_\mu u_2) \left(\bar{d}_1\gamma^\mu d_2\right) \\ {\rm ud1_2213} \qquad & (\bar{u}_2\gamma_\mu u_2) \left(\bar{d}_1\gamma^\mu d_3\right) \\ {\rm ud1_2222} \qquad & (\bar{u}_2\gamma_\mu u_2) \left(\bar{d}_2\gamma^\mu d_2\right) \\ {\rm ud1_2223} \qquad & (\bar{u}_2\gamma_\mu u_2) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_2233} \qquad & (\bar{u}_2\gamma_\mu u_2) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_2331} \qquad & (\bar{u}_2\gamma_\mu u_2) \left(\bar{d}_3\gamma^\mu d_3\right) \\ {\rm ud1_2312} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_1\right) \\ {\rm ud1_2312} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) \\ {\rm ud1_2313} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_3\right) \\ {\rm ud1_2321} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_1\right) \\ {\rm ud1_2322} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_1\right) \\ {\rm ud1_2323} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_2\right) \\ {\rm ud1_2323} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_2331} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_2332} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_2332} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_3\right) \\ {\rm ud1_2333} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_3\right) \\ {\rm ud1_2333} \qquad & (\bar{u}_2\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_3\right) \\ {\rm ud1_3311} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_1\right) \\ {\rm ud1_3312} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) \\ {\rm ud1_3313} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) \\ {\rm ud1_3313} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) \\ {\rm ud1_3313} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) \\ {\rm ud1_3322} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_2\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_2\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) \\ {\rm ud1_3323} \qquad & (\bar{u}_3\gamma$	_		$^{\mathrm{C}}$
$\begin{array}{c} \mathrm{ud1}_1331 & (\bar{u}_1\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_1) \\ \mathrm{ud1}_1332 & (\bar{u}_1\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_2) \\ \mathrm{ud1}_1333 & (\bar{u}_1\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2211 & (\bar{u}_2\gamma_\mu u_2) \ (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2212 & (\bar{u}_2\gamma_\mu u_2) \ (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2213 & (\bar{u}_2\gamma_\mu u_2) \ (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_2222 & (\bar{u}_2\gamma_\mu u_2) \ (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_2223 & (\bar{u}_2\gamma_\mu u_2) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2233 & (\bar{u}_2\gamma_\mu u_2) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_1\gamma^\mu d_1) \\ \mathrm{ud1}_2312 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_2313 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_2321 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_2322 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2323 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_2333 & (\bar{u}_2\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3311 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3312 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3313 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_1\gamma^\mu d_2) \\ \mathrm{ud1}_3313 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_3322 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_1\gamma^\mu d_3) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_2) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_2\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) \ (\bar{d}_3$			\mathbf{C}
$\begin{array}{c} \mathrm{ud1_1332} & (\bar{u}_1\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_2\right) & \mathrm{C} \\ \mathrm{ud1_1333} & (\bar{u}_1\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2211} & (\bar{u}_2\gamma_{\mu}u_2) \left(\bar{d}_1\gamma^{\mu}d_1\right) & \mathrm{R} \\ \mathrm{ud1_2212} & (\bar{u}_2\gamma_{\mu}u_2) \left(\bar{d}_1\gamma^{\mu}d_2\right) & \mathrm{C} \\ \mathrm{ud1_2213} & (\bar{u}_2\gamma_{\mu}u_2) \left(\bar{d}_1\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2222} & (\bar{u}_2\gamma_{\mu}u_2) \left(\bar{d}_2\gamma^{\mu}d_2\right) & \mathrm{R} \\ \mathrm{ud1_2223} & (\bar{u}_2\gamma_{\mu}u_2) \left(\bar{d}_2\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2233} & (\bar{u}_2\gamma_{\mu}u_2) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{R} \\ \mathrm{ud1_2331} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_1\gamma^{\mu}d_1\right) & \mathrm{C} \\ \mathrm{ud1_2312} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_1\gamma^{\mu}d_1\right) & \mathrm{C} \\ \mathrm{ud1_2313} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_1\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2321} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_2\gamma^{\mu}d_1\right) & \mathrm{C} \\ \mathrm{ud1_2322} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_2\gamma^{\mu}d_1\right) & \mathrm{C} \\ \mathrm{ud1_2323} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_2\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2331} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_2\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2332} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_1\right) & \mathrm{C} \\ \mathrm{ud1_2332} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2332} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_2333} & (\bar{u}_2\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_3311} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_3312} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_3313} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_2\right) & \mathrm{R} \\ \mathrm{ud1_3322} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_2\right) & \mathrm{R} \\ \mathrm{ud1_3323} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_3323} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{C} \\ \mathrm{ud1_3333} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{R} \\ \mathrm{ud1_3323} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) & \mathrm{R} \\ \mathrm{ud1_3333} & (\bar{u}_3\gamma_{\mu}u_3) \left($	_	:	\mathbf{C}
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud1_2331	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud1_2332	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_2ig)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud1_2333	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
ud1_3313 $(\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_3)$ C ud1_3322 $(\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2)$ R ud1_3323 $(\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3)$ C ud1_3333 $(\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3)$ R	ud1_3311	$(ar{u}_3\gamma_\mu u_3) \left(ar{d}_1\gamma^\mu d_1 ight)$	${ m R}$
ud1_3322 $(\bar{u}_3\gamma_{\mu}u_3)(\bar{d}_2\gamma^{\mu}d_2)$ R ud1_3323 $(\bar{u}_3\gamma_{\mu}u_3)(\bar{d}_2\gamma^{\mu}d_3)$ C ud1_3333 $(\bar{u}_3\gamma_{\mu}u_3)(\bar{d}_3\gamma^{\mu}d_3)$ R	ud1_3312	$(ar{u}_3\gamma_\mu u_3)ig(ar{d}_1\gamma^\mu d_2ig)$	$^{\mathrm{C}}$
ud1_3323 $(\bar{u}_3\gamma_{\mu}u_3)(\bar{d}_2\gamma^{\mu}d_3)$ C ud1_3333 $(\bar{u}_3\gamma_{\mu}u_3)(\bar{d}_3\gamma^{\mu}d_3)$ R	ud1_3313		$^{\mathrm{C}}$
ud1_3323 $(\bar{u}_3\gamma_{\mu}u_3)(\bar{d}_2\gamma^{\mu}d_3)$ C ud1_3333 $(\bar{u}_3\gamma_{\mu}u_3)(\bar{d}_3\gamma^{\mu}d_3)$ R	ud1_3322	$(ar{u}_3\gamma_\mu u_3)ig(ar{d}_2\gamma^\mu d_2ig)$	${ m R}$
ud1_3333 $(\bar{u}_3 \gamma_{\mu} u_3) (\bar{d}_3 \gamma^{\mu} d_3)$ R	ud1_3323		$^{\mathrm{C}}$
$\begin{array}{lll} \text{ud8_1111} & \left(\bar{u}_{1} \gamma_{\mu} T^{A} u_{1} \right) \left(\bar{d}_{1} \gamma^{\mu} T^{A} d_{1} \right) & \text{R} \\ \text{ud8_1112} & \left(\bar{u}_{1} \gamma_{\mu} T^{A} u_{1} \right) \left(\bar{d}_{1} \gamma^{\mu} T^{A} d_{2} \right) & \text{C} \\ \text{ud8_1113} & \left(\bar{u}_{1} \gamma_{\mu} T^{A} u_{1} \right) \left(\bar{d}_{1} \gamma^{\mu} T^{A} d_{3} \right) & \text{C} \end{array}$	ud1_3333	$(\bar{u}_3\gamma_\mu u_3)(\bar{d}_3\gamma^\mu d_3)$	R
ud8_1112 $(\bar{u}_1 \gamma_{\mu} T^A u_1) (\bar{d}_1 \gamma^{\mu} T^A d_2)$ C Ud8_1113 $(\bar{u}_1 \gamma_{\mu} T^A u_1) (\bar{d}_1 \gamma^{\mu} T^A d_3)$ C	ud8_1111	$(ar{u}_1\gamma_\mu T^Au_1)~(ar{d}_1\gamma^\mu T^Ad_1)$	R
ud8_1113 $\left(\bar{u}_1\gamma_{\mu}T^Au_1\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right)$ C	ud8_1112	$\left(ar{u}_1\gamma_\mu T^A u_1 ight)\left(ar{d}_1\gamma^\mu T^A d_2 ight)$	$^{\mathrm{C}}$
	ud8_1113	$\left(ar{u}_1\gamma_{\mu}T^Au_1 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_3 ight)$	$^{\mathrm{C}}$

$\begin{array}{c} \text{ud8_1122} & (\bar{u}_1\gamma_{\mu}T^Au_1) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{ud8_1123} & (\bar{u}_1\gamma_{\mu}T^Au_1) (\bar{d}_2\gamma^{\mu}T^Ad_3) \\ \text{ud8_1133} & (\bar{u}_1\gamma_{\mu}T^Au_1) (\bar{d}_3\gamma^{\mu}T^Ad_3) \\ \text{ud8_1211} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_1) \\ \text{ud8_1212} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1213} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1221} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1221} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1222} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_2\gamma^{\mu}T^Ad_1) \\ \text{ud8_1223} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{ud8_1231} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{ud8_1232} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{ud8_1233} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{ud8_1311} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{ud8_1312} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1313} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1312} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1313} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1322} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1323} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1323} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{ud8_1333} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{ud8_1333} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{ud8_1333} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{ud8_2211} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{ud8_2212} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_2213} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_2223} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_2233} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{ud8_2313} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_2313} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_2313} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_2323} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_2323} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{ud8_2323} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ ud8_232$
$\begin{array}{c} {\rm ud8_1123} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) & {\rm R} \\ {\rm ud8_1133} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_3\gamma^\mu T^A d_3) & {\rm R} \\ {\rm ud8_1211} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_1) & {\rm C} \\ {\rm ud8_1212} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) & {\rm C} \\ {\rm ud8_1213} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1221} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1222} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_1) & {\rm C} \\ {\rm ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_2) & {\rm C} \\ {\rm ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_2) & {\rm C} \\ {\rm ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1232} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1311} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1312} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1313} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1322} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1322} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_2\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1322} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_2\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_2\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_3\gamma^\mu T^A d_2) & {\rm C} \\ {\rm ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_3\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2211} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2213} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2213} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2223} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2233} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2231} & (\bar{u}_2\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2311} & (\bar{u}_2\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2322} & (\bar{u}_2\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) & {\rm C} \\ {\rm ud8_2322} & (\bar{u}_2\gamma_\mu T^A$
$\begin{array}{c} \mathrm{ud8_1133} & (\bar{u}_1\gamma_\mu T^A u_1) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1211} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_1) \\ \mathrm{ud8_1212} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8_1213} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_1221} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8_1221} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8_1222} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8_1231} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1232} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_2) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1311} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_1312} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_1313} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_1322} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8_1322} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8_1323} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8_1332} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \ (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8_2211} & (\bar{u}_2\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2212} & (\bar{u}_2\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2213} & (\bar{u}_2\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2223} & (\bar{u}_2\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2223} & (\bar{u}_2\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2233} & (\bar{u}_2\gamma_\mu T^A u_2) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2311} & (\bar{u}_2\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2312} & (\bar{u}_2\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2322} & (\bar{u}_2\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8_2322} & (\bar{u}_2\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8_2322} & (\bar{u}_2\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8_2322} & (\bar{u}_2\gamma_\mu T^A u_3) \ (\bar{d}_1\gamma^\mu T^A d_2) \\ ud8_232$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{c} \text{ud8_1212} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) \\ \text{ud8_1213} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1221} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_2\gamma^\mu T^A d_1\right) \\ \text{C} \\ \text{ud8_1222} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_2\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_1223} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_2\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_1231} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1232} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_3\gamma^\mu T^A d_1\right) \\ \text{C} \\ \text{ud8_1233} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_3\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_1233} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1311} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_1\right) \\ \text{C} \\ \text{ud8_1312} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_1313} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1321} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1322} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_2\gamma^\mu T^A d_1\right) \\ \text{C} \\ \text{ud8_1323} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1331} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1332} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_2211} & \left(\bar{u}_2\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_2213} & \left(\bar{u}_2\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_2223} & \left(\bar{u}_2\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_2233} & \left(\bar{u}_2\gamma_\mu T^A u_2\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_2311} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) \\ \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) $
$\begin{array}{c} \text{ud8_1213} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1221} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1222} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_1223} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1231} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1232} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1233} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_1233} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1311} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1312} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1313} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_1313} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1322} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_1323} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1331} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1332} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2211} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2211} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2222} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2233} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2331} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & $
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$\begin{array}{c} \text{ud8_1222} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{ud8_1233} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_2\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_1231} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_3\gamma^{\mu}T^Ad_1) \\ \text{C} \\ \text{ud8_1232} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{ud8_1233} & (\bar{u}_1\gamma_{\mu}T^Au_2) (\bar{d}_3\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_1311} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_1) \\ \text{C} \\ \text{ud8_1312} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{ud8_1313} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_1321} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_1322} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_1) \\ \text{C} \\ \text{ud8_1323} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{ud8_1331} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_1332} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_3\gamma^{\mu}T^Ad_1) \\ \text{C} \\ \text{ud8_1333} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{ud8_1333} & (\bar{u}_1\gamma_{\mu}T^Au_3) (\bar{d}_3\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{ud8_2211} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_2212} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{ud8_2213} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{ud8_2223} & (\bar{u}_2\gamma_{\mu}T^Au_2) (\bar{d}_2\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_2233} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_3\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_2311} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_2312} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_2313} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{ud8_2313} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_2321} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{ud8_2322} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{Ud8_2322} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{Ud8_2322} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_1\gamma^{\mu}T^Ad_3) \\ \text{C} \\ \text{Ud8_2322} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{C} \\ \text{Ud8_2322} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{C} \\ \text{Ud8_2322} & (\bar{u}_2\gamma_{\mu}T^Au_3) (\bar{d}_2\gamma^{\mu}T^Ad_2) \\ \text{C} \\ \text{C} \\ \text{Ud8_2322} & ($
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$\begin{array}{c} \text{ud8_1231} & \left(\bar{u}_1 \gamma_\mu T^A u_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1232} & \left(\bar{u}_1 \gamma_\mu T^A u_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1233} & \left(\bar{u}_1 \gamma_\mu T^A u_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_1311} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1312} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1313} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_1321} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1322} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1323} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1331} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1332} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_2211} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_1 \gamma^\mu T^A d_1 \right) & \text{R} \\ \text{ud8_2212} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_1 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_2223} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_1 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_2233} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2311} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{R} \\ \text{ud8_2312} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{R} \\ \text{ud8_2313} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2321} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_1 \right) & \text{C} \\ \end{array}$
$\begin{array}{c} \text{ud8_1232} & \left(\bar{u}_1 \gamma_\mu T^A u_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1233} & \left(\bar{u}_1 \gamma_\mu T^A u_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_1311} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1312} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1313} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_1321} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1322} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1323} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_1331} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_1332} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_1333} & \left(\bar{u}_1 \gamma_\mu T^A u_3 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2211} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_1 \gamma^\mu T^A d_1 \right) & \text{R} \\ \text{ud8_2212} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_1 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_2213} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_1 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_2223} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_2 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2233} & \left(\bar{u}_2 \gamma_\mu T^A u_2 \right) \left(\bar{d}_2 \gamma^\mu T^A d_3 \right) & \text{R} \\ \text{ud8_2311} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_1 \right) & \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_2 \right) & \text{C} \\ \text{ud8_2313} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2321} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_3 \right) & \text{C} \\ \text{ud8_2322} & \left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_3 \right) & \text{C} \\ \end{array}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
ud8_2321 $\left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_1 \right)$ C ud8_2322 $\left(\bar{u}_2 \gamma_\mu T^A u_3 \right) \left(\bar{d}_2 \gamma^\mu T^A d_2 \right)$ C
$(\omega_Z/\mu^{\perp} \omega_S)(\omega_Z/\Gamma \omega_S)$
ud8_2331 $\left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_1\right)$ C
ud8_2332 $\left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_2\right)$ C
$(\bar{u}_{2} \sim T^{A} u_{2}) (\bar{d}_{2} \sim T^{A} d_{2})$
ud8_3311 $(\bar{u}_3\gamma_{\mu}T^Au_3)(\bar{d}_1\gamma^{\mu}T^Ad_1)$ R
ud8_3312 $\left(\bar{u}_3\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right)$ C
ud8_3313 $\left(\bar{u}_3\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right)$ C
ud8_3322 $(\bar{u}_3\gamma_{\mu}T^Au_3)(\bar{d}_2\gamma^{\mu}T^Ad_2)$ R
ud8_3323 $\left(\bar{u}_3\gamma_{\mu}T^Au_3\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_3\right)$ C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$

WC name	Operator	Type
le_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	R
le_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	\mathbf{C}
le_1113	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	\mathbf{C}
le_1122	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	\mathbf{R}
le_1123	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	\mathbf{C}
le_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	\mathbf{R}
le_1211	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	\mathbf{C}
le_1212	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	\mathbf{C}
le_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	\mathbf{C}
le_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_1 ight)$	\mathbf{C}
le_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	\mathbf{C}
le_1223	$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
le_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_1 ight)$	\mathbf{C}
le_1232	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_2 ight)$	\mathbf{C}
le_1233	$(\bar{\ell}_1\gamma_\mu\ell_2)(\bar{e}_3\gamma^\mu e_3)$	\mathbf{C}
le_1311	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	\mathbf{C}
le_1312	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	\mathbf{C}
le_1313	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	\mathbf{C}
le_1321	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_1 ight)$	\mathbf{C}
le_1322	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	\mathbf{C}
le_1323	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	\mathbf{C}
le_1331	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_1 ight)$	\mathbf{C}
le_1332	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_2 ight)$	\mathbf{C}
le_1333	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	\mathbf{C}
le_2211	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{e}_1\gamma^\mu e_1)$	\mathbf{R}
le_2212	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	\mathbf{C}
le_2213	$(\bar{\ell}_2\gamma_\mu\ell_2)(\bar{e}_1\gamma^\mu e_3)$	\mathbf{C}
le_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	\mathbf{R}
le_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	\mathbf{C}
le_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	\mathbf{R}
le_2311	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	\mathbf{C}
le_2312	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	\mathbf{C}
le_2313	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	\mathbf{C}
le_2321	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_1 ight)$	\mathbf{C}
le_2322	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{e}_2\gamma^\mu e_2)$	\mathbf{C}
le_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	\mathbf{C}
le_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_1 ight)$	\mathbf{C}
le_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_2 ight)$	\mathbf{C}
le_2333	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{e}_3\gamma^\mu e_3)$	\mathbf{C}
le_3311	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{e}_1\gamma^\mu e_1)$	\mathbf{R}
le_3312	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{e}_1\gamma^\mu e_2)$	\mathbf{C}
le_3313	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{e}_1\gamma^\mu e_3)$	\mathbf{C}

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_3322	$(\bar{\ell}_3 \gamma_\mu \ell_3) (\bar{e}_2 \gamma^\mu e_2)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_3323		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_3333		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_1111		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_1112		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_1113		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_1122		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_1123		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_1133		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_1211		\mathbf{C}
$\begin{array}{lll} \text{lu_1221} & \left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_1\right) & \text{C} \\ \text{lu_1222} & \left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_2\right) & \text{C} \end{array}$	lu_1212		\mathbf{C}
lu_1221 $(\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_1)$ Clu_1222 $(\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_2)$ C	lu_1213		\mathbf{C}
lu_1222 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_2) $ C	lu_1221		\mathbf{C}
lu 1223 $(\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_3)$ C	lu_1222		\mathbf{C}
("1 /μ" 2 / (""2 / ""3 /	lu_1223	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	\mathbf{C}
lu_1231 $(\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_3 \gamma^\mu u_1)$ C	lu_1231		\mathbf{C}
lu_1232 $(\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_3 \gamma^\mu u_2)$ C	lu_1232	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{u}_3\gamma^\mu u_2 ight)$	\mathbf{C}
lu_1233 $(\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_3 \gamma^\mu u_3)$ C	lu_1233	$\left(ar{\ell}_1\gamma_\mu\ell_2\right)\left(ar{u}_3\gamma^\mu u_3 ight)$	\mathbf{C}
lu_1311 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_1)$ C	lu_1311		\mathbf{C}
lu_1312 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_2)$ C	lu_1312	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_2 ight)$	\mathbf{C}
lu_1313 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_3)$ C	lu_1313	$(ar{\ell}_1\gamma_\mu\ell_3)(ar{u}_1\gamma^\mu u_3)$	\mathbf{C}
lu_1321 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_1)$ C	lu_1321	$(ar{\ell}_1\gamma_\mu\ell_3)(ar{u}_2\gamma^\mu u_1)$	\mathbf{C}
lu_1322 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_2)$ C	lu_1322	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_2 ight)$	\mathbf{C}
lu_1323 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_3)$ C	lu_1323	$(ar{\ell}_1\gamma_\mu\ell_3)(ar{u}_2\gamma^\mu u_3)$	\mathbf{C}
lu_1331 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_1)$ C	lu_1331	$(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{u}_3\gamma^\mu u_1)$	\mathbf{C}
lu_1332 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_2)$ C	lu_1332	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_2 ight)$	\mathbf{C}
lu_1333 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_3)$ C	lu_1333	$\left(ar{\ell}_1\gamma_\mu\ell_3\right)\left(ar{u}_3\gamma^\mu u_3 ight)$	\mathbf{C}
lu_2211 $\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_1\gamma^\mu u_1\right)$ R	lu_2211	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_1\gamma^\mu u_1 ight)$	\mathbf{R}
lu_2212 $(\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_2)$ C	lu_2212	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_1\gamma^\mu u_2 ight)$	\mathbf{C}
lu_2213 $(\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_3)$ C	lu_2213	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	\mathbf{C}
lu_2222 $ \left(\bar{\ell}_2 \gamma_\mu \ell_2\right) \left(\bar{u}_2 \gamma^\mu u_2\right) $ R	lu_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_2\gamma^\mu u_2 ight)$	R
lu_2223 $\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_3\right)$ C	lu_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	\mathbf{C}
lu_2233 $(\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_3 \gamma^\mu u_3)$ R	lu_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2\right)\left(ar{u}_3\gamma^\mu u_3 ight)$	\mathbf{R}
lu_2311 $\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_1\right)$ C	lu_2311	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_1 ight)$	\mathbf{C}
lu_2312 $(\bar{\ell}_2 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_2)$ C	lu_2312	$(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_1\gamma^\mu u_2)$	\mathbf{C}
lu_2313 $\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$ C	lu_2313	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	\mathbf{C}
lu_2321 $(\bar{\ell}_2 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_1)$ C	lu_2321	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_1 ight)$	\mathbf{C}
lu_2322 $(\bar{\ell}_2 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_2)$ C	lu_2322	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_2 ight)$	
lu_2323 $(\bar{\ell}_2 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_3)$ C	lu_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	
lu_2331 $(\bar{\ell}_2 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_1)$ C	lu_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_1 ight)$	\mathbf{C}
lu_2332 $(\bar{\ell}_2 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_2)$ C	lu_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_2 ight)$	\mathbf{C}
lu_2333 $\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$ C	lu_2333	$\left(\ell_2\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	\mathbf{C}

WC name	Operator	Type
lu_3311	$(\bar{\ell}_3 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_1)$	R
lu_3312	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_2 ight)$	\mathbf{C}
lu_3313	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	\mathbf{C}
lu_3322	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_2 ight)$	\mathbf{R}
lu_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	\mathbf{C}
lu_3333	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_3 ight)$	\mathbf{R}
ld_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{R}
ld_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
ld_1113	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
ld_1122	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	R
ld_1123	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	\mathbf{C}
ld_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
ld_1211	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{C}
ld_1212	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
ld_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
ld_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_1 ight)$	\mathbf{C}
ld_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	\mathbf{C}
ld_1223	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	\mathbf{C}
ld_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_3\gamma^\mu d_1 ight)$	\mathbf{C}
ld_1232	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_3\gamma^\mu d_2 ight)$	\mathbf{C}
ld_1233	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	\mathbf{C}
ld_1311	$(\ell_1\gamma_\mu\ell_3)(d_1\gamma^\mu d_1)$	\mathbf{C}
ld_1312	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
ld_1313	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
ld_1321	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_1 ight)$	\mathbf{C}
ld_1322	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	\mathbf{C}
ld_1323	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	\mathbf{C}
ld_1331	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_1 ight)$	\mathbf{C}
ld_1332	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_2 ight)$	\mathbf{C}
ld_1333	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	\mathbf{C}
ld_2211	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	R
ld_2212	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
ld_2213	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
ld_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	R
ld_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	\mathbf{C}
ld_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
ld_2311	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{C}
ld_2312	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
ld_2313	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
ld_2321	$(ar{\ell_2}\gamma_\mu\ell_3)(ar{d_2}\gamma^\mu d_1)$	\mathbf{C}
ld_2322	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	\mathbf{C}
ld_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	\mathbf{C}

WC name	Operator	Type
ld_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_1 ight)$	С
ld_2332	$(ar{\ell}_2\gamma_\mu\ell_3)~(ar{d}_3\gamma^\mu d_2)$	\mathbf{C}
ld_2333	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	\mathbf{C}
ld_3311	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{d}_1\gamma^\mu d_1)$	${ m R}$
ld_3312	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
ld_3313	$(ar{\ell}_3\gamma_\mu\ell_3)ig(ar{d}_1\gamma^\mu d_3ig)$	\mathbf{C}
ld_3322	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{d}_2\gamma^\mu d_2)$	R
ld_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	\mathbf{C}
ld_3333	$(ar{\ell}_3\gamma_\mu\ell_3)ig(ar{d}_3\gamma^\mu d_3ig)$	R
qe_1111	$(ar{q}_1\gamma_\mu q_1)(ar{e}_1\gamma^\mu e_1)$	R
qe_1112	$(ar{q}_1\gamma_\mu q_1)(ar{e}_1\gamma^\mu e_2)$	\mathbf{C}
qe_1113	$(ar{q}_1\gamma_\mu q_1)(ar{e}_1\gamma^\mu e_3)$	$^{\mathrm{C}}$
qe_1122	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
qe_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	$^{\mathrm{C}}$
qe_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
qe_1211	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	\mathbf{C}
qe_1212	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	$^{\mathrm{C}}$
qe_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	\mathbf{C}
qe_1221	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_2\gamma^{\mu}e_1 ight)$	C
qe_1222	$(ar{q}_1\gamma_\mu q_2)(ar{e}_2\gamma^\mu e_2)$	C
qe_1223	$(ar{q}_1\gamma_{\mu}q_2)(ar{e}_2\gamma^{\mu}e_3)$	C
qe_1231	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_3\gamma^{\mu}e_1 ight)$	C
qe_1232	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_3\gamma^{\mu}e_2 ight)$	C
qe_1233	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	C
qe_1311	$(\bar{q}_1\gamma_\mu q_3)(\bar{e}_1\gamma^\mu e_1)$	C
qe_1312	$(\bar{q}_1\gamma_\mu q_3)(\bar{e}_1\gamma^\mu e_2)$	C
qe_1313	$(\bar{q}_1\gamma_\mu q_3)(\bar{e}_1\gamma^\mu e_3)$	C
qe_1321	$(ar{q}_1\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_1)$	C C
qe_1322	$(ar{q}_1\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_2)$	C
qe_1323	$(ar{q}_1\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_3)$	C
qe_1331 qe_1332	$(ar{q}_1\gamma_\mu q_3)(ar{e}_3\gamma^\mu e_1) \ (ar{q}_1\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_2)$	C
qe_1332 qe_1333	$egin{aligned} \left(ar{q}_1\gamma_\mu q_3 ight)\left(ar{e}_3\gamma^\mu e_2 ight) \ \left(ar{q}_1\gamma_\mu q_3 ight)\left(ar{e}_3\gamma^\mu e_3 ight) \end{aligned}$	C
qe_1333 qe_2211	$(ar{q}_1\gamma_\mu q_3)(ar{e}_3\gamma^{}ar{e}_3) \ (ar{q}_2\gamma_\mu q_2)(ar{e}_1\gamma^\mu e_1)$	R
qe_2211 qe_2212	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight) \ \left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	C
qe_2213	$(q_2\gamma_\mu q_2)(\overline{e}_1\gamma^\mu e_2) \ (\overline{q}_2\gamma_\mu q_2)(\overline{e}_1\gamma^\mu e_3)$	Č
qe_2222	$(ar{q}_2\gamma_\mu q_2)(ar{e}_1\gammaar{e}_3) \ (ar{q}_2\gamma_\mu q_2)(ar{e}_2\gamma^\mu e_2)$	$\overset{\circ}{\mathrm{R}}$
qe_2223	$(ar{q}_2\gamma_\mu q_2)(ar{e}_2\gamma^\mu e_3)$	C
qe_2233	$(\bar{q}_2\gamma_\mu q_2)(\bar{e}_3\gamma^\mu e_3)$	R
qe_2311	$(ar{q}_2\gamma_\mu q_3)(ar{e}_1\gamma^\mu e_1)$	$^{\mathrm{C}}$
qe_2312	$(\bar{q}_2\gamma_\mu q_3)(\bar{e}_1\gamma^\mu e_2)$	$\dot{ ext{C}}$
qe_2313	$(\bar{q}_2\gamma_\mu q_3)(\bar{e}_1\gamma^\mu e_3)$	\mathbf{C}
qe_2321	$(ar{q}_2\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_1)$	\mathbf{C}
qe_2322	$(ar{q}_2\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_2)$	\mathbf{C}
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WC name	Operator	Type
qe_2323	$(\bar{q}_2\gamma_\mu q_3)(\bar{e}_2\gamma^\mu e_3)$	С
qe_2331	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_3\gamma^{\mu}e_1 ight)$	\mathbf{C}
qe_2332	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_3\gamma^{\mu}e_2 ight)$	\mathbf{C}
qe_2333	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	\mathbf{C}
qe_3311	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	\mathbf{R}
qe_3312	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	\mathbf{C}
qe_3313	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	\mathbf{C}
qe_3322	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	\mathbf{R}
qe_3323	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
qe_3333	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	\mathbf{R}
qu1_1111	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	\mathbf{R}
qu1_1112	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	\mathbf{C}
qu1_1113	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_1122	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	\mathbf{R}
qu1_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{R}
qu1_1211	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	\mathbf{C}
qu1_1212	$\left(ar{q}_1\gamma_\mu q_2 ight)\left(ar{u}_1\gamma^\mu u_2 ight)$	\mathbf{C}
qu1_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_1221	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	\mathbf{C}
qu1_1222	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	\mathbf{C}
qu1_1223	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_1231	$(ar{q}_1\gamma_\mu q_2)(ar{u}_3\gamma^\mu u_1)$	\mathbf{C}
qu1_1232	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	\mathbf{C}
qu1_1233	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_1311	$(ar{q}_1\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_1)$	\mathbf{C}
qu1_1312	$(ar{q}_1\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_2)$	\mathbf{C}
qu1_1313	$(ar{q}_1\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_3)$	\mathbf{C}
qu1_1321	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	\mathbf{C}
qu1_1322	$(ar{q}_1\gamma_\mu q_3)(ar{u}_2\gamma^\mu u_2)$	\mathbf{C}
qu1_1323	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_1331	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_1 ight)$	\mathbf{C}
qu1_1332	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	\mathbf{C}
qu1_1333	$(ar{q}_1\gamma_\mu q_3)(ar{u}_3\gamma^\mu u_3)$	\mathbf{C}
qu1_2211	$(ar{q}_2\gamma_\mu q_2)(ar{u}_1\gamma^\mu u_1)$	\mathbf{R}
qu1_2212	$(ar{q}_2\gamma_\mu q_2)(ar{u}_1\gamma^\mu u_2)$	\mathbf{C}
qu1_2213	$(ar{q}_2\gamma_\mu q_2)(ar{u}_1\gamma^\mu u_3)$	\mathbf{C}
qu1_2222	$(ar{q}_2\gamma_\mu q_2)(ar{u}_2\gamma^\mu u_2)$	\mathbf{R}
qu1_2223	$\left(ar{q}_2\gamma_\mu q_2 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	\mathbf{C}
qu1_2233	$(ar{q}_2\gamma_\mu q_2)(ar{u}_3\gamma^\mu u_3)$	\mathbf{R}
qu1_2311	$(ar{q}_2\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_1)$	\mathbf{C}
qu1_2312	$(ar{q}_2\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_2)$	\mathbf{C}
qu1_2313	$(\bar{q}_2\gamma_\mu q_3)(\bar{u}_1\gamma^\mu u_3)$	\mathbf{C}
qu1_2321	$(\bar{q}_2\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_1)$	\mathbf{C}

WC name	Operator	Type
qu1_2322	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	С
qu1_2323	$(\bar{q}_2\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_3)$	\mathbf{C}
qu1_2331	$\left(\bar{q}_2\gamma_{\mu}q_3\right)\left(\bar{u}_3\gamma^{\mu}u_1\right)$	\mathbf{C}
qu1_2332	$(\bar{q}_2\gamma_\mu q_3)(\bar{u}_3\gamma^\mu u_2)$	\mathbf{C}
qu1_2333	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_3311	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	R
qu1_3312	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	\mathbf{C}
qu1_3313	$\left(\bar{q}_3\gamma_{\mu}q_3\right)\left(\bar{u}_1\gamma^{\mu}u_3\right)$	\mathbf{C}
qu1_3322	$(\bar{q}_3\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_2)$	\mathbf{R}
qu1_3323	$(\bar{q}_3\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_3)$	\mathbf{C}
qu1_3333	$(ar{q}_3\gamma_\mu q_3)(ar{u}_3\gamma^\mu u_3)$	\mathbf{R}
qd1_1111	$(ar{q}_1\gamma_{\mu}q_1)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{R}
qd1_1112	$(ar{q}_1\gamma_{\mu}q_1)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1113	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_1122	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	R
qd1_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R
qd1_1211	$(ar{q}_1\gamma_{\mu}q_2)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{C}
qd1_1212	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_1221	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	\mathbf{C}
qd1_1222	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1223	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_1231	$(ar{q}_1\gamma_{\mu}q_2)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	\mathbf{C}
qd1_1232	$(ar{q}_1\gamma_{\mu}q_2)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1233	$(ar{q}_1\gamma_{\mu}q_2)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_1311	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{C}
qd1_1312	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1313	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_1321	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	\mathbf{C}
qd1_1322	$(ar{q}_1\gamma_{\mu}q_3)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1323	$(ar{q}_1\gamma_{\mu}q_3)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_1331	$(ar{q}_1\gamma_\mu q_3)\left(ar{d}_3\gamma^\mu d_1 ight)$	\mathbf{C}
qd1_1332	$(ar{q}_1\gamma_{\mu}q_3)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1333	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_2211	$(ar{q}_2\gamma_\mu q_2)\left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{R}
qd1_2212	$(ar{q}_2\gamma_\mu q_2)\left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
qd1_2213	$(ar{q}_2\gamma_\mu q_2)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
qd1_2222	$(ar{q}_2\gamma_\mu q_2)ig(ar{d}_2\gamma^\mu d_2ig)$	\mathbf{R}
qd1_2223	$(ar{q}_2\gamma_\mu q_2)ig(ar{d}_2\gamma^\mu d_3ig)$	\mathbf{C}
qd1_2233	$(ar{q}_2\gamma_\mu q_2)ig(ar{d}_3\gamma^\mu d_3ig)$	R
qd1_2311	$(ar{q}_2\gamma_\mu q_3)\left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{C}
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WC name	Operator	Type
qd1_2312	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	C
qd1_2313	$(ar{q}_2\gamma_\mu q_3)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
qd1_2321	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	\mathbf{C}
qd1_2322	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_2\gamma^\mu d_2 ight)$	\mathbf{C}
qd1_2323	$(ar{q}_2\gamma_\mu q_3)\left(ar{d}_2\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
qd1_2331	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_1 ight)$	\mathbf{C}
qd1_2332	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
qd1_2333	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
qd1_3311	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_1 ight)$	R
qd1_3312	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
qd1_3313	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
qd1_3322	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_2\gamma^\mu d_2 ight)$	R
qd1_3323	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_2\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
qd1_3333	$(ar{q}_3\gamma_\mu q_3)ig(ar{d}_3\gamma^\mu d_3ig)$	R
qu8_1111	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{u}_1\gamma^\mu T^Au_1 ight)$	R
qu8_1112	$\left\langle ar{q}_1 \gamma_\mu T^A q_1 \right\rangle \left\langle ar{u}_1 \gamma^\mu T^A u_2 \right\rangle$	\mathbf{C}
qu8_1113	$\left\langle ar{q}_1 \gamma_\mu T^A q_1 \right\rangle \left\langle ar{u}_1 \gamma^\mu T^A u_3 \right\rangle$	\mathbf{C}
qu8_1122	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	R
qu8_1123	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{u}_2\gamma^{\mu}T^Au_3 ight)$	$^{\mathrm{C}}$
qu8_1133	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{u}_3\gamma^{\mu}T^Au_3 ight)$	R
qu8_1211	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_1 ight)$	$^{\mathrm{C}}$
qu8_1212	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_1213	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_3 ight)$	\mathbf{C}
qu8_1221	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_2\gamma^{\mu}T^Au_1 ight)$	\mathbf{C}
qu8_1222	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_2\gamma^\mu T^Au_2 ight)$	\mathbf{C}
qu8_1223	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_2\gamma^{\mu}T^Au_3 ight)$	\mathbf{C}
qu8_1231	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_3\gamma^{\mu}T^Au_1 ight)$	\mathbf{C}
qu8_1232	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_3\gamma^{\mu}T^Au_2 ight)$	C
qu8_1233	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_3\gamma^{\mu}T^Au_3 ight)$	C
qu8_1311	$\left(ar{q}_1\gamma_\mu T^A_{q_3} ight)\left(ar{u}_1\gamma^\mu T^A_{u_1} ight)$	C
qu8_1312	$\left(ar{q}_1 \gamma_\mu T^A_{-A} q_3 \right) \left(ar{u}_1 \gamma^\mu T^A u_2 \right)$	C
qu8_1313	$\left(\overline{q}_{1}\gamma_{\mu}T^{A}q_{3} ight) \left(\overline{u}_{1}\gamma^{\mu}T^{A}u_{3} ight)$	C
qu8_1321	$\left(ar{q}_1 \gamma_\mu T^A q_3 \right) \left(ar{u}_2 \gamma^\mu T^A u_1 \right)$	C
qu8_1322	$\left(ar{q}_1 \gamma_\mu T^A q_3 \right) \left(ar{u}_2 \gamma^\mu T^A u_2 \right)$	С
qu8_1323	$\left\langle \bar{q}_{1}\gamma_{\mu}T^{A}q_{3}\right\rangle \left\langle \bar{u}_{2}\gamma^{\mu}T^{A}u_{3}\right\rangle$	С
qu8_1331	$\left\langle \bar{q}_{1}\gamma_{\mu}T^{A}q_{3}\right\rangle \left\langle \bar{u}_{3}\gamma^{\mu}T^{A}u_{1}\right\rangle$	С
qu8_1332	$\left\langle \overline{q}_{1}\gamma_{\mu}T^{A}q_{3}\right\rangle \left\langle \overline{u}_{3}\gamma^{\mu}T^{A}u_{2}\right\rangle = \left\langle \overline{q}_{1}\gamma_{\mu}T^{A}u_{2}\right\rangle$	С
qu8_1333	$\langle \bar{q}_1 \gamma_\mu T^A q_3 \rangle \langle \bar{u}_3 \gamma^\mu T^A u_3 \rangle$	С
qu8_2211	$\left(\bar{q}_{2}\gamma_{\mu}T^{A}q_{2}\right)\left(\bar{u}_{1}\gamma^{\mu}T^{A}u_{1}\right)$	R
qu8_2212	$(\bar{q}_2\gamma_\mu T^A q_2)(\bar{u}_1\gamma^\mu T^A u_2)$	$^{\mathrm{C}}$
qu8_2213	$\left\langle \bar{q}_{2}\gamma_{\mu}T^{A}q_{2}\right\rangle \left\langle \bar{u}_{1}\gamma^{\mu}T^{A}u_{3}\right\rangle \left\langle \bar{q}_{2}\gamma^{\mu}T^{A}q_{2}\right\rangle \left\langle \bar{q}_{2}\gamma^{\mu}T^{A}q_{3}\right\rangle$	С
qu8_2222	$\left(ar{q}_2 \gamma_\mu T^A q_2 \right) \left(ar{u}_2 \gamma^\mu T^A u_2 \right)$	R
qu8_2223	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{u}_2\gamma^\mu T^A u_3\right)$	$^{\mathrm{C}}$

WC name	Operator	Type
qu8_2233	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_3\gamma^{\mu}T^Au_3 ight)$	R
qu8_2311	$\left(ar{q}_2 \gamma_\mu T^A q_3 \right) \left(ar{u}_1 \gamma^\mu T^A u_1 \right)$	$^{\mathrm{C}}$
qu8_2312	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_1\gamma^\mu T^Au_2 ight)$	\mathbf{C}
qu8_2313	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_1\gamma^\mu T^Au_3 ight)$	\mathbf{C}
qu8_2321	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_1 ight)$	$^{\mathrm{C}}$
qu8_2322	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_2323	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_3 ight)$	\mathbf{C}
qu8_2331	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_3\gamma^\mu T^Au_1 ight)$	\mathbf{C}
qu8_2332	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_3\gamma^\mu T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_2333	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_3\gamma^\mu T^Au_3 ight)$	$^{\mathrm{C}}$
qu8_3311	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_1 ight)$	R
qu8_3312	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_3313	$\left(ar{q}_3\gamma_\mu T^Aq_3 ight)\left(ar{u}_1\gamma^\mu T^Au_3 ight)$	$^{\mathrm{C}}$
qu8_3322	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	R
qu8_3323	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_2\gamma^{\mu}T^Au_3 ight)$	$^{\mathrm{C}}$
qu8_3333	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_3\gamma^{\mu}T^Au_3 ight)$	R
qd8_1111	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_1\gamma^\mu T^Ad_1 ight)$	R
qd8_1112	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_1\gamma^\mu T^Ad_2 ight)$	$^{\mathrm{C}}$
qd8_1113	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(d_1\gamma^{\mu}T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_1122	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_2 ight)$	R
qd8_1123	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_1133	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_3\gamma^\mu T^Ad_3 ight)$	R
qd8_1211	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_1 ight)$	\mathbf{C}
qd8_1212	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_2 ight)$	$^{\mathrm{C}}$
qd8_1213	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_1221	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_2\gamma^\mu T^Ad_1 ight)$	$^{\mathrm{C}}$
qd8_1222	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_2\gamma^\mu T^Ad_2 ight)$	$^{\mathrm{C}}$
qd8_1223	$egin{pmatrix} (ar{q}_1\gamma_\mu T^Aq_2) & (ar{d}_2\gamma^\mu T^Ad_3) \end{pmatrix}$	$\dot{ ext{C}}$
qd8_1231	$egin{pmatrix} (ar{q}_1\gamma_\mu T^Aq_2) & (ar{d}_3\gamma^\mu T^Ad_1) \end{pmatrix}$	$\dot{ ext{C}}$
qd8_1232	$egin{pmatrix} (ar{q}_1\gamma_\mu T^Aq_2) & (ar{d}_3\gamma^\mu T^Ad_2) \end{pmatrix}$	$^{\mathrm{C}}$
qd8_1233	$egin{pmatrix} ar{(ar{q}_1\gamma_\mu T^Aq_2)} ig(ar{ar{d}_3}\gamma^\mu T^Ad_3ig) \end{pmatrix}$	Č
qd8_1311	$egin{pmatrix} (ar{q}_1\gamma_\mu T^Aq_2) & (ar{d}_1\gamma^\mu T^Ad_1) \ (ar{q}_1\gamma_\mu T^Aq_3) & (ar{d}_1\gamma^\mu T^Ad_1) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
qd8_1312	$egin{pmatrix} (q_1/\mu^2 & q_3) & (a_1/\mu^2 & a_1) \ (ar q_1\gamma_\mu T^A q_3) & (ar d_1\gamma^\mu T^A d_2) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
qd8_1313	$egin{pmatrix} (q_1/\mu_1 & q_3) & (a_1/1 & a_2) \ (ar{q}_1\gamma_\mu T^A q_3) & (ar{d}_1\gamma^\mu T^A d_3) \end{pmatrix}$	C
qd8_1321	$egin{pmatrix} (q_1/\mu_1 & q_3) & (a_1/1 & a_3) \ (ar{q}_1\gamma_\mu T^A q_3) & (ar{d}_2\gamma^\mu T^A d_1) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
qd8_1322	$egin{pmatrix} (q_1/\mu_1 & q_3) & (a_2/1 & a_1) \ (ar{q}_1\gamma_\mu T^A q_3) & (ar{d}_2\gamma^\mu T^A d_2) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
qd8_1323	$egin{array}{l} (q_1\gamma_\mu I - q_3) & (u_2\gamma^* I - u_2) \ (ar q_1\gamma_\mu T^A q_3) & (ar d_2\gamma^\mu T^A d_3) \end{array}$	C
_	$egin{array}{c} (q_1\gamma_\mu I & q_3) & (u_2\gamma I & u_3) \ (ar q_1\gamma_\mu T^Aq_3) & (ar d_3\gamma^\mu T^Ad_1) \end{array}$	C
qd8_1331	$egin{array}{l} (q_1\gamma_\mu I & q_3) & (a_3\gamma\cdot I & a_1) \ (ar q_1\gamma_\mu T^Aq_3) & (ar d_3\gamma^\mu T^Ad_2) \end{array}$	C
qd8_1332	$(q_1\gamma_{\mu}I q_3) (a_3\gamma^{\mu}I a_2)$	
qd8_1333	$\left(\bar{q}_1\gamma_{\mu}T^Aq_3\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right)$	С
qd8_2211	$\left(\bar{q}_2\gamma_{\mu}T^Aq_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_1\right)$	R
qd8_2212	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	C
qd8_2213	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
qd8_2222	$(\bar{q}_2\gamma_\mu T^Aq_2) (\bar{d}_2\gamma^\mu T^Ad_2)$	R
qd8_2223	$\left\langle ar{q}_2\gamma_\mu T^Aq_2 ight angle \left\langle ar{d}_2\gamma^\mu T^Ad_3 ight angle$	$^{\mathrm{C}}$
qd8_2233	$\left\langle ar{q}_2 \gamma_\mu T^A q_2 \right\rangle \left\langle ar{d}_3 \gamma^\mu T^A d_3 \right\rangle$	\mathbf{R}
qd8_2311	$(ar{q}_2\gamma_\mu T^Aq_3) (ar{d}_1\gamma^\mu T^Ad_1)$	\mathbf{C}
qd8_2312	$(\bar{q}_2\gamma_\mu T^Aq_3)(\bar{d}_1\gamma^\mu T^Ad_2)$	\mathbf{C}
qd8_2313	$\left\langle ar{q}_{2}\gamma_{\mu}T^{A}q_{3} ight angle \left\langle ar{d}_{1}\gamma^{\mu}T^{A}d_{3} ight angle$	\mathbf{C}
qd8_2321	$(ar{q}_2\gamma_\mu T^Aq_3)(ar{d}_2\gamma^\mu T^Ad_1)$	\mathbf{C}
qd8_2322	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{d}_2\gamma^\mu T^Ad_2 ight)$	\mathbf{C}
qd8_2323	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	\mathbf{C}
qd8_2331	$(\bar{q}_2\gamma_\mu T^Aq_3)(\bar{d}_3\gamma^\mu T^Ad_1)$	\mathbf{C}
qd8_2332	$(\bar{q}_2\gamma_\mu T^Aq_3)(\bar{d}_3\gamma^\mu T^Ad_2)$	\mathbf{C}
qd8_2333	$\left(\bar{q}_2\gamma_\mu T^Aq_3\right)\left(\bar{d}_3\gamma^\mu T^Ad_3\right)$	\mathbf{C}
qd8_3311	$\left(ar{q}_3\gamma_\mu T^Aq_3 ight)\left(ar{d}_1\gamma^\mu T^Ad_1 ight)$	R
qd8_3312	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	$^{\mathrm{C}}$
qd8_3313	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_3322	$\left(ar{q}_3\gamma_\mu T^Aq_3 ight)\left(ar{d}_2\gamma^\mu T^Ad_2 ight)$	R
qd8_3323	$\left(ar{q}_3\gamma_\mu T^Aq_3 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_3333	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_3 ight)$	R
ledq_1111	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_1q_1 ight)$	$^{\mathrm{C}}$
ledq_1112	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_1q_2 ight)$	\mathbf{C}
ledq_1113	$\left(\ell_1e_1 ight)\left(d_1q_3 ight)$	$^{\mathrm{C}}$
ledq_1121	$\left(\ell_{1}e_{1} ight)\left(d_{2}q_{1} ight)$	\mathbf{C}
ledq_1122	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_2q_2 ight)$	\mathbf{C}
ledq_1123	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_2q_3 ight)$	$^{\mathrm{C}}$
ledq_1131	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_3q_1 ight)$	$^{\mathrm{C}}$
ledq_1132	$\left(\ell_{1}e_{1} ight) \left(d_{3}q_{2} ight)$	$^{\mathrm{C}}$
ledq_1133	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_3q_3 ight)$	$^{\mathrm{C}}$
ledq_1211	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_1q_1 ight)$	$^{\mathrm{C}}$
ledq_1212	$\left(\ell_{1}e_{2} ight)\left(d_{1}q_{2} ight)$	$^{\mathrm{C}}$
ledq_1213	$\left(ar{\ell}_1 e_2 ight) \left(ar{d}_1 q_3 ight)$	$^{\mathrm{C}}$
ledq_1221	$\left(\ell_{1}e_{2} ight) \left(d_{2}q_{1} ight)$	C
ledq_1222	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_2q_2 ight)$	C
ledq_1223	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_2q_3 ight)$	C
ledq_1231	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_3q_1 ight)$	C
ledq_1232	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_3q_2 ight)$	$^{\mathrm{C}}$
ledq_1233	$(\ell_1e_2)\ (d_3q_3)$	C
ledq_1311	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_1 ight)$	C
ledq_1312	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_2 ight)$	$^{\mathrm{C}}$
ledq_1313	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_3 ight)$	$^{\mathrm{C}}$
ledq_1321	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_1 ight)$	$^{\mathrm{C}}$
ledq_1322	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_2 ight)$	\mathbf{C}
ledq_1323	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_3 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
ledq_1331	$(ar{\ell}_1e_3)$ $(ar{d}_3q_1)$	C
ledq_1332	$(ar{\ell}_1 e_3) (ar{d}_3 q_2)$	C
ledq_1333	$(\bar{\ell}_1 e_3) (\bar{d}_3 q_3)$	$^{\mathrm{C}}$
ledq_2111	$(\overline{\ell}_2 e_1) (\overline{d}_1 q_1)$	$^{\mathrm{C}}$
ledq_2112	$(\bar{\ell}_2 e_1) (\bar{d}_1 q_2)$	C
ledq_2113	$(\bar{\ell}_2 e_1) (\bar{d}_1 q_3)$	\mathbf{C}
ledq_2121	$(ar{\ell_2}e_1)(ar{d_2}q_1)$	\mathbf{C}
ledq_2122	$egin{pmatrix} ar{(ar{\ell}_2 e_1)} & ar{(ar{d}_2 q_2)} \end{pmatrix}$	\mathbf{C}
ledq_2123	$\left\langle ar{\ell}_2 e_1 \right angle \left\langle ar{d}_2 q_3 \right angle$	\mathbf{C}
ledq_2131	$ig(ar{\ell}_2 e_1ig)ig(ar{d}_3 q_1ig)$	\mathbf{C}
ledq_2132	$ig(ar{\ell}_2 e_1ig)ig(ar{d}_3 q_2ig)$	\mathbf{C}
ledq_2133	$(ar{\ell}_2 e_1) (ar{d}_3 q_3)$	\mathbf{C}
ledq_2211	$egin{pmatrix} ar{(ar{\ell}_2 e_2)} & ar{(ar{d}_1 q_1)} \end{pmatrix}$	\mathbf{C}
ledq_2212	$ig(ar{\ell}_2 e_2ig)ig(ar{d}_1 q_2ig)$	\mathbf{C}
ledq_2213	$ig(ar{\ell}_2 e_2ig)ig(ar{d}_1 q_3ig)$	\mathbf{C}
ledq_2221	$ig(ar{\ell}_2 e_2ig)ig(ar{d}_2 q_1ig)$	\mathbf{C}
ledq_2222	$ig(ar{\ell}_2 e_2ig)ig(ar{d}_2 q_2ig)$	\mathbf{C}
ledq_2223	$ig(ar{\ell}_2 e_2ig)ig(ar{d}_2 q_3ig)$	\mathbf{C}
ledq_2231	$ig(ar{\ell}_2 e_2ig)ig(ar{d}_3 q_1ig)$	\mathbf{C}
ledq_2232	$(ar{\ell}_2 e_2) \ (ar{d}_3 q_2)$	\mathbf{C}
ledq_2233	$ig(ar{\ell}_2 e_2ig)ig(ar{d}_3 q_3ig)$	\mathbf{C}
ledq_2311	$ig(ar{\ell}_2 e_3ig)ig(ar{d}_1 q_1ig)$	\mathbf{C}
ledq_2312	$ig(ar{\ell}_2 e_3ig)ig(ar{d}_1 q_2ig)$	\mathbf{C}
ledq_2313	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_1 q_3 ight)$	\mathbf{C}
ledq_2321	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_2 q_1 ight)$	\mathbf{C}
ledq_2322	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_2 q_2 ight)$	\mathbf{C}
ledq_2323	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_2 q_3 ight)$	\mathbf{C}
ledq_2331	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_3 q_1 ight)$	\mathbf{C}
ledq_2332	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_3 q_2 ight)$	\mathbf{C}
ledq_2333	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_3 q_3 ight)$	\mathbf{C}
ledq_3111	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_1q_1 ight)$	\mathbf{C}
ledq_3112	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_1 q_2 ight)$	\mathbf{C}
ledq_3113	$\left(\ell_3e_1 ight)\left(d_1q_3 ight)$	\mathbf{C}
ledq_3121	$ig(ar{\ell}_3 e_1ig) ig(ar{d}_2 q_1ig)$	\mathbf{C}
ledq_3122	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_2 q_2 ight)$	\mathbf{C}
ledq_3123	$\left(\ell_3e_1 ight)\left(d_2q_3 ight)$	\mathbf{C}
ledq_3131	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_3 q_1 ight)$	\mathbf{C}
ledq_3132	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_3q_2 ight)$	\mathbf{C}
ledq_3133	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_3 q_3 ight)$	\mathbf{C}
ledq_3211	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_1 q_1 ight)$	\mathbf{C}
ledq_3212	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_1 q_2 ight)$	\mathbf{C}
ledq_3213	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_1 q_3 ight)$	\mathbf{C}

WC name	Operator	Type
ledq_3221	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_2 q_1 ight)$	C
ledq_3222	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_2 q_2ig)$	\mathbf{C}
ledq_3223	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_2 q_3ig)$	\mathbf{C}
ledq_3231	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_3 q_1ig)$	\mathbf{C}
ledq_3232	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_3 q_2ig)$	\mathbf{C}
ledq_3233	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_3 q_3ig)$	\mathbf{C}
ledq_3311	$(ar{\ell}_3 e_3) (ar{d}_1 q_1)$	\mathbf{C}
ledq_3312	$ig(ar{\ell}_3 e_3ig)ig(ar{d}_1 q_2ig)$	\mathbf{C}
ledq_3313	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_1q_3 ight)$	\mathbf{C}
ledq_3321	$ig(ar{\ell}_3 e_3ig)ig(ar{d}_2 q_1ig)$	\mathbf{C}
ledq_3322	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_2q_2 ight)$	\mathbf{C}
ledq_3323	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_2q_3 ight)$	\mathbf{C}
ledq_3331	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_1 ight)$	\mathbf{C}
ledq_3332	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_2 ight)$	$^{\mathrm{C}}$
ledq_3333	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_3 ight)$	\mathbf{C}
quqd1_1111	$(\bar{q}_1 u_1) \epsilon_{jk} (\bar{q}_1 d_1)$	\mathbf{C}
quqd1_1112	$\left(ar{q}_1 u_1\right) \epsilon_{jk} \left(ar{q}_1 d_2\right)$	\mathbf{C}
quqd1_1113	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_1d_3)$	C
quqd1_1121	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_2d_1)$	C
quqd1_1122	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_2d_2)$	C
quqd1_1123	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_2d_3)$	С
quqd1_1131	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_3d_1)$	С
quqd1_1132	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_3d_2)$	С
quqd1_1133	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_3d_3)$	C C
quqd1_1211 quqd1_1212	$(\bar{q}_1 u_2) \epsilon_{jk} (\bar{q}_1 d_1)$	C
quqd1_1212 quqd1_1213	$egin{aligned} (ar{q}_1u_2)\epsilon_{jk}(ar{q}_1d_2)\ (ar{q}_1u_2)\epsilon_{jk}(ar{q}_1d_3) \end{aligned}$	C
quqd1_1211 quqd1_1221	$(q_1u_2)\epsilon_{jk}(q_1u_3) \ (ar q_1u_2)\epsilon_{jk}(ar q_2d_1)$	$^{\rm C}$
quqd1_1222	$(q_1u_2)\epsilon_{jk}(q_2u_1) \ (ar q_1u_2)\epsilon_{jk}(ar q_2d_2)$	$\stackrel{ ext{C}}{ ext{C}}$
quqd1_1223	$(q_1u_2)\epsilon_{jk}(q_2u_2) \ (\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_2d_3)$	$\stackrel{\circ}{\mathrm{C}}$
quqd1_1231	$(\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_2u_3) = (\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_3d_1)$	$\overset{\circ}{\mathrm{C}}$
quqd1_1232	(\bar{q}_1u_2) ϵ_{jk} (\bar{q}_3d_2)	Č
quqd1_1233	$(ar{q}_1u_2)\epsilon_{jk}(ar{q}_3d_3)$	\mathbf{C}
quqd1_1311	$(ar{q}_1u_3)\epsilon_{jk}(ar{q}_1d_1)$	\mathbf{C}
quqd1_1312	$(\bar{q}_1u_3)\epsilon_{jk}(\bar{q}_1d_2)$	\mathbf{C}
quqd1_1313	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	\mathbf{C}
quqd1_1321	$(ar{q}_1u_3)\epsilon_{jk}(ar{q}_2d_1)$	\mathbf{C}
quqd1_1322	$(ar{q}_1u_3)\epsilon_{jk}(ar{q}_2d_2)$	\mathbf{C}
quqd1_1323	$\left(ar{q}_1 u_3 ight) \epsilon_{jk} \left(ar{q}_2 d_3 ight)$	C
quqd1_1331	$\left(ar{q}_1 u_3 ight) \epsilon_{jk} \left(ar{q}_3 d_1 ight)$	C
quqd1_1332	$(ar{q}_1u_3)\epsilon_{jk}(ar{q}_3d_2)$	C
quqd1_1333	$(ar{q}_1u_3)\epsilon_{jk}(ar{q}_3d_3)$	С
quqd1_2111	$\left(\bar{q}_{2}u_{1}\right)\epsilon_{jk}\left(\bar{q}_{1}d_{1}\right)$	С

WC name	Operator	Type
quqd1_2112	$(\bar{q}_2 u_1) \epsilon_{jk} (\bar{q}_1 d_2)$	C
quqd1_2113	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	$^{\mathrm{C}}$
quqd1_2121	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_2122	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	$^{\mathrm{C}}$
quqd1_2123	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{3} ight)$	C
quqd1_2131	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{3}d_{1} ight)$	C
quqd1_2132	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	C
quqd1_2133	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{3}d_{3} ight)$	C
quqd1_2211	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	\mathbf{C}
quqd1_2212	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	\mathbf{C}
quqd1_2213	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	\mathbf{C}
quqd1_2221	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	\mathbf{C}
quqd1_2222	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	$^{\mathrm{C}}$
quqd1_2223	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{3} ight)$	$^{\mathrm{C}}$
quqd1_2231	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{3}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_2232	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	$^{\mathrm{C}}$
quqd1_2233	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{3}d_{3} ight)$	$^{\mathrm{C}}$
quqd1_2311	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_2312	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	$^{\mathrm{C}}$
quqd1_2313	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	$^{\mathrm{C}}$
quqd1_2321	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_2322	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	$^{\mathrm{C}}$
quqd1_2323	$\left(ar{q}_2 u_3 ight) \epsilon_{jk} \left(ar{q}_2 d_3 ight)$	$^{\mathrm{C}}$
quqd1_2331	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_2332	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	$^{\mathrm{C}}$
quqd1_2333	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{3} ight)$	$^{\mathrm{C}}$
quqd1_3111	$\left(ar{q}_3 u_1 ight) \epsilon_{jk} \left(ar{q}_1 d_1 ight)$	$^{\mathrm{C}}$
quqd1_3112	$(ar{q}_3u_1)\epsilon_{jk}(ar{q}_1d_2)$	$^{\mathrm{C}}$
quqd1_3113	$\left(ar{q}_3 u_1 ight) \epsilon_{jk} \left(ar{q}_1 d_3 ight)$	$^{\mathrm{C}}$
quqd1_3121	$(ar{q}_3u_1)\epsilon_{jk}(ar{q}_2d_1)$	$^{\mathrm{C}}$
quqd1_3122	$\left(ar{q}_3 u_1 ight) \epsilon_{jk} \left(ar{q}_2 d_2 ight)$	$^{\mathrm{C}}$
quqd1_3123	$(ar{q}_3u_1)\epsilon_{jk}(ar{q}_2d_3)$	\mathbf{C}
quqd1_3131	$(ar{q}_3u_1)\epsilon_{jk}(ar{q}_3d_1)$	\mathbf{C}
quqd1_3132	$(ar{q}_3u_1)\epsilon_{jk}(ar{q}_3d_2)$	\mathbf{C}
quqd1_3133	$(ar{q}_3u_1)\epsilon_{jk}(ar{q}_3d_3)$	\mathbf{C}
quqd1_3211	$\left(ar{q}_{3}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_3212	$\left(ar{q}_{3}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	C
quqd1_3213	$(\bar{q}_3u_2)\epsilon_{jk}(\bar{q}_1d_3)$	C
quqd1_3221	$(ar{q}_3u_2)\epsilon_{jk}(ar{q}_2d_1)$	C
quqd1_3222	$(\bar{q}_3u_2)\epsilon_{jk}(\bar{q}_2d_2)$	C
quqd1_3223	$(\bar{q}_3u_2)\epsilon_{jk}(\bar{q}_2d_3)$	C
quqd1_3231	$(\bar{q}_3u_2)\epsilon_{jk}(\bar{q}_3d_1)$	C
quqd1_3232	$\left(ar{q}_3 u_2 ight) \epsilon_{jk} \left(ar{q}_3 d_2 ight)$	C
quqd1_3233	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_3 d_3\right)$	\mathbf{C}

WC name	Operator	Type
quqd1_3311	$\left(ar{q}_{3}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	С
quqd1_3312	$(ar{q}_3u_3)\epsilon_{jk}(ar{q}_1d_2)$	\mathbf{C}
quqd1_3313	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_1d_3)$	\mathbf{C}
quqd1_3321	$(ar{q}_3u_3)\epsilon_{jk}(ar{q}_2d_1)$	\mathbf{C}
quqd1_3322	$(ar{q}_3u_3)\epsilon_{jk}(ar{q}_2d_2)$	\mathbf{C}
quqd1_3323	$(ar{q}_3u_3)\epsilon_{jk}(ar{q}_2d_3)$	\mathbf{C}
quqd1_3331	$(ar{q}_3u_3)\epsilon_{jk}(ar{q}_3d_1)$	\mathbf{C}
quqd1_3332	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_3d_2)$	\mathbf{C}
quqd1_3333	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_3d_3)$	\mathbf{C}
quqd8_1111	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	\mathbf{C}
quqd8_1112	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	\mathbf{C}
quqd8_1113	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	\mathbf{C}
quqd8_1121	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	\mathbf{C}
quqd8_1122	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	\mathbf{C}
quqd8_1123	$(\bar{q}_1 T^A u_1) \epsilon_{jk} (\bar{q}_2 T^A d_3)$	\mathbf{C}
quqd8_1131	$(\bar{q}_1 T^A u_1) \epsilon_{jk} (\bar{q}_3 T^A d_1)$	\mathbf{C}
quqd8_1132	$(\bar{q}_1 T^A u_1) \epsilon_{jk} (\bar{q}_3 T^A d_2)$	\mathbf{C}
quqd8_1133	$\left\langle ar{q}_1 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_3 T^A d_3 \right angle$	\mathbf{C}
quqd8_1211	$\left\langle ar{q}_1 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_1 ight angle$	\mathbf{C}
quqd8_1212	$\left(ar{q}_1 T^A u_2 ight) \epsilon_{jk} \left(ar{q}_1 T^A d_2 ight)$	\mathbf{C}
quqd8_1213	$egin{pmatrix} ar{q_1} T^A u_2 \end{pmatrix} \epsilon_{jk} egin{pmatrix} ar{q_1} T^A d_3 \end{pmatrix}$	Č
quqd8_1221	$egin{pmatrix} (q_1T & u_2) & \epsilon_{jk} & (q_1T & u_3) \\ (ar{q}_1T^Au_2) & \epsilon_{jk} & (ar{q}_2T^Ad_1) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
quqd8_1222	$egin{array}{l} (ar{q}_1 T^A u_2) \epsilon_{jk} (ar{q}_2 T^A d_2) \end{array}$	$\stackrel{\circ}{\mathrm{C}}$
quqd8_1223	$egin{array}{l} (ar{q}_1 T^A u_2) \epsilon_{jk} (ar{q}_2 T^A d_3) \ \end{array}$	$\stackrel{\circ}{\mathrm{C}}$
quqd8_1231	$egin{pmatrix} (q_1 & z_2) & \epsilon_{jk} & (q_2 z_1 & z_3) \\ (ar{q}_1 T^A u_2) & \epsilon_{jk} & (ar{q}_3 T^A d_1) \end{pmatrix}$	Č
quqd8_1232	$egin{pmatrix} (q_1 & z_2) & \epsilon_{jk} & (q_3 & z_4) \\ (ar{q}_1 T^A u_2) & \epsilon_{jk} & (ar{q}_3 T^A d_2) \end{pmatrix}$	Č
quqd8_1233	$egin{array}{l} (ar{q}_1 T^A u_2) \epsilon_{jk} (ar{q}_3 T^A d_3) \end{array}$	$\overset{\circ}{\mathrm{C}}$
quqd8_1311	$egin{array}{l} (q_1T & a_2) \epsilon_{jk} (q_3T & a_3) \ (ar{q}_1T^Au_3) \epsilon_{jk} (ar{q}_1T^Ad_1) \end{array}$	$\stackrel{ ext{C}}{ ext{C}}$
quqd8_1312	/- m/ /- m/ 1	$\stackrel{ ext{C}}{ ext{C}}$
quqd8_1313	\ _A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C
quqd8_1321) A () A - (C
quqd8_1322	\ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C
	\ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C
quqd8_1323) A (") A (C
quqd8_1331	\ _A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C
quqd8_1332		
quqd8_1333	$(\bar{q}_1 T^A u_3) \epsilon_{jk} (\bar{q}_3 T^A d_3)$	C C
quqd8_2111	$(\bar{q}_2 T^A u_1) \epsilon_{jk} (\bar{q}_1 T^A d_1)$	
quqd8_2112	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	С
quqd8_2113	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	С
quqd8_2121	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	С
quqd8_2122	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	С
quqd8_2123	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	$\stackrel{ ext{C}}{\sim}$
quqd8_2131	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	С
quqd8_2132	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	С

WC name	Operator	Type
quqd8_2133	$(\bar{q}_2 T^A u_1) \epsilon_{jk} (\bar{q}_3 T^A d_3)$	С
quqd8_2211	$\left\langle ar{q}_{2}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{1}T^{A}d_{1} ight angle$	$^{\mathrm{C}}$
quqd8_2212	$\left\langle ar{q}_{2}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{1}T^{A}d_{2} ight angle$	$^{\mathrm{C}}$
quqd8_2213	$\left\langle ar{q}_2 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_3 \right angle$	$^{\mathrm{C}}$
quqd8_2221	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_2222	$\left\langle ar{q}_2 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_2 T^A d_2 ight angle$	$^{\mathrm{C}}$
quqd8_2223	$(\bar{q}_2 T^A u_2) \epsilon_{jk} (\bar{q}_2 T^A d_3)$	$^{\mathrm{C}}$
quqd8_2231	$\left\langle ar{q}_{2}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{3}T^{A}d_{1} ight angle$	$^{\mathrm{C}}$
quqd8_2232	$\left\langle ar{q}_2 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_3 T^A d_2 ight angle$	$^{\mathrm{C}}$
quqd8_2233	$\left\langle ar{q}_2 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_3 T^A d_3 ight angle$	$^{\mathrm{C}}$
quqd8_2311	$\left\langle ar{q}_{2}T^{A}u_{3} ight angle \epsilon_{jk}\left\langle ar{q}_{1}T^{A}d_{1} ight angle$	$^{\mathrm{C}}$
quqd8_2312	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_1 T^A d_2\right)$	$^{\mathrm{C}}$
quqd8_2313	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_1 T^A d_3\right)$	$^{\mathrm{C}}$
quqd8_2321	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_2322	$\left(ar{q}_2 T^A u_3 \right) \epsilon_{jk} \left(ar{q}_2 T^A d_2 \right)$	$^{\mathrm{C}}$
quqd8_2323	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_3\right)$	$^{\mathrm{C}}$
quqd8_2331	$\left\langle ar{q}_{2}T^{A}u_{3} ight angle \epsilon_{jk}\left\langle ar{q}_{3}T^{A}d_{1} ight angle$	$^{\mathrm{C}}$
quqd8_2332	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_3 T^A d_2\right)$	$^{\mathrm{C}}$
quqd8_2333	$\left(ar{q}_2 T^A u_3 ight) \epsilon_{jk} \left(ar{q}_3 T^A d_3 ight)$	$^{\mathrm{C}}$
quqd8_3111	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_3112	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	$^{\mathrm{C}}$
quqd8_3113	$\left(ar{q}_{3}T^{A}u_{1} ight) \epsilon_{jk}\left(ar{q}_{1}T^{A}d_{3} ight)$	\mathbf{C}
quqd8_3121	$\left(ar{q}_3 T^A u_1 \right) \epsilon_{jk} \left(ar{q}_2 T^A d_1 \right)$	\mathbf{C}
quqd8_3122	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	\mathbf{C}
quqd8_3123	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	\mathbf{C}
quqd8_3131	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	\mathbf{C}
quqd8_3132	$\left(ar{q}_3 T^A u_1 \right) \epsilon_{jk} \left(ar{q}_3 T^A d_2 \right)$	\mathbf{C}
quqd8_3133	$\left(ar{q}_3 T^A u_1 \right) \epsilon_{jk} \left(ar{q}_3 T^A d_3 \right)$	\mathbf{C}
quqd8_3211	$\left(ar{q}_3 T^A u_2\right) \epsilon_{jk} \left(ar{q}_1 T^A d_1\right)$	\mathbf{C}
quqd8_3212	$\left(ar{q}_3 T^A u_2 \right) \epsilon_{jk} \left(ar{q}_1 T^A d_2 \right)$	\mathbf{C}
quqd8_3213	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	\mathbf{C}
quqd8_3221	$\left(ar{q}_3 T^A u_2\right) \epsilon_{jk} \left(ar{q}_2 T^A d_1\right)$	\mathbf{C}
quqd8_3222	$\left(ar{q}_3 T^A u_2\right) \epsilon_{jk} \left(ar{q}_2 T^A d_2\right)$	\mathbf{C}
quqd8_3223	$\left(ar{q}_3 T^A u_2\right) \epsilon_{jk} \left(ar{q}_2 T^A d_3\right)$	\mathbf{C}
quqd8_3231	$\left(ar{q}_{3}T^{A}u_{2} ight) \epsilon_{jk}\left(ar{q}_{3}T^{A}d_{1} ight)$	\mathbf{C}
quqd8_3232	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	С
quqd8_3233	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	$^{\mathrm{C}}$
quqd8_3311	$\left(ar{q}_{3}T^{A}u_{3} ight) \epsilon_{jk}\left(ar{q}_{1}T^{A}d_{1} ight)$	$^{\mathrm{C}}$
quqd8_3312	$\left(ar{q}_{3}T^{A}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}T^{A}d_{2} ight)$	$^{\mathrm{C}}$
quqd8_3313	$\left(\bar{q}_{3}T^{A}u_{3}\right)\epsilon_{jk}\left(\bar{q}_{1}T^{A}d_{3}\right)$	$\stackrel{ ext{C}}{\sim}$
quqd8_3321	$\left(ar{q}_{3}T^{A}u_{3} ight) \epsilon_{jk}\left(ar{q}_{2}T^{A}d_{1} ight)$	\mathbf{C}
quqd8_3322	$\left(ar{q}_3T^Au_3 ight)\epsilon_{jk}\left(ar{q}_2T^Ad_2 ight)$	\mathbf{C}
quqd8_3323	$\left(\bar{q}_{3}T^{A}u_{3}\right)\epsilon_{jk}\left(\bar{q}_{2}T^{A}d_{3}\right)$	$\stackrel{ ext{C}}{\sim}$
quqd8_3331	$\left(ar{q}_{3}T^{A}u_{3} ight) \epsilon_{jk}\left(ar{q}_{3}T^{A}d_{1} ight)$	\mathbf{C}

WC name	Operator	Type
quqd8_3332	$(\bar{q}_3 T^A u_3) \epsilon_{jk} (\bar{q}_3 T^A d_2)$	C
quqd8_3333	$\left\langle \bar{q}_{3}T^{A}u_{3}\right angle \epsilon_{jk}\left\langle \bar{q}_{3}T^{A}d_{3} ight angle$	\mathbf{C}
lequ1_1111	$\left(ar{\ell}_1 e_1 ight)\epsilon_{jk}\left(ar{q}_1 u_1 ight)$	\mathbf{C}
lequ1_1112	$\left(ar{\ell}_1 e_1\right) \epsilon_{jk} \left(ar{q}_1 u_2\right)$	\mathbf{C}
lequ1_1113	$(\bar{\ell}_1 e_1) \epsilon_{jk} (\bar{q}_1 u_3)$	\mathbf{C}
lequ1_1121	$\left(ar{\ell}_1 e_1\right) \epsilon_{jk} \left(ar{q}_2 u_1 ight)$	\mathbf{C}
lequ1_1122	$\left(ar{\ell}_1 e_1 ight)\epsilon_{jk}\left(ar{q}_2 u_2 ight)$	\mathbf{C}
lequ1_1123	$\left(ar{\ell}_1 e_1 ight)\epsilon_{jk}\left(ar{q}_2 u_3 ight)$	\mathbf{C}
lequ1_1131	$\left(ar{\ell}_1 e_1 ight)\epsilon_{jk}\left(ar{q}_3 u_1 ight)$	\mathbf{C}
lequ1_1132	$\left(ar{\ell}_1 e_1 ight)\epsilon_{jk}\left(ar{q}_3 u_2 ight)$	\mathbf{C}
lequ1_1133	$\left(ar{\ell}_1 e_1 ight)\epsilon_{jk}\left(ar{q}_3 u_3 ight)$	\mathbf{C}
lequ1_1211	$\left(ar{\ell}_1 e_2 ight)\epsilon_{jk}\left(ar{q}_1 u_1 ight)$	\mathbf{C}
lequ1_1212	$\left(ar{\ell}_1 e_2 ight)\epsilon_{jk}\left(ar{q}_1 u_2 ight)$	\mathbf{C}
lequ1_1213	$\left(ar{\ell}_1 e_2 ight)\epsilon_{jk}\left(ar{q}_1 u_3 ight)$	\mathbf{C}
lequ1_1221	$\left(ar{\ell}_1 e_2 ight)\epsilon_{jk}\left(ar{q}_2 u_1 ight)$	\mathbf{C}
lequ1_1222	$\left(ar{\ell}_1 e_2 ight)\epsilon_{jk}\left(ar{q}_2 u_2 ight)$	\mathbf{C}
lequ1_1223	$\left(ar{\ell}_1 e_2 ight)\epsilon_{jk}\left(ar{q}_2 u_3 ight)$	\mathbf{C}
lequ1_1231	$\left(\underline{\ell}_1 e_2\right) \epsilon_{jk} \left(\overline{q}_3 u_1\right)$	\mathbf{C}
lequ1_1232	$\left(\ell_1 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	\mathbf{C}
lequ1_1233	$\left(\underline{\ell}_1 e_2\right) \epsilon_{jk} \left(\overline{q}_3 u_3\right)$	\mathbf{C}
lequ1_1311	$\left(\underline{\ell}_1 e_3\right) \epsilon_{jk} \left(\overline{q}_1 u_1\right)$	\mathbf{C}
lequ1_1312	$\left(\underline{\ell}_1 e_3\right) \epsilon_{jk} \left(\overline{q}_1 u_2\right)$	\mathbf{C}
lequ1_1313	$\left(\underline{\ell}_1 e_3\right) \epsilon_{jk} \left(\overline{q}_1 u_3\right)$	\mathbf{C}
lequ1_1321	$\left(\underline{\ell}_1 e_3\right) \epsilon_{jk} \left(\overline{q}_2 u_1\right)$	\mathbf{C}
lequ1_1322	$\left(\ell_1 e_3 \right) \epsilon_{jk} \left(ar{q}_2 u_2 \right)$	\mathbf{C}
lequ1_1323	$\left(\underline{\ell}_1e_3\right)\epsilon_{jk}\left(ar{q}_2u_3 ight)$	\mathbf{C}
lequ1_1331	$\left(\underline{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	\mathbf{C}
lequ1_1332	$\left(\underline{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	\mathbf{C}
lequ1_1333	$\left(\underline{\ell}_1 e_3\right) \epsilon_{jk} \left(\overline{q}_3 u_3\right)$	\mathbf{C}
lequ1_2111	$\left(\underline{\ell}_{2}e_{1}\right)\epsilon_{jk}\left(ar{q}_{1}u_{1}\right)$	\mathbf{C}
lequ1_2112	$\left(\underline{\ell}_{2}e_{1}\right)\epsilon_{jk}\left(ar{q}_{1}u_{2} ight)$	\mathbf{C}
lequ1_2113	$\left(\underline{\ell}_{2}e_{1}\right)\epsilon_{jk}\left(\bar{q}_{1}u_{3}\right)$	\mathbf{C}
lequ1_2121	$\left(\underline{\ell}_{2}e_{1}\right)\epsilon_{jk}\left(ar{q}_{2}u_{1}\right)$	\mathbf{C}
lequ1_2122	$\left(\ell_{2}e_{1}\right)\epsilon_{jk}\left(ar{q}_{2}u_{2}\right)$	C
lequ1_2123	$\left(\ell_{2}e_{1}\right) \epsilon_{jk}\left(ar{q}_{2}u_{3} ight)$	С
lequ1_2131	$\left(\underline{\ell}_{2}e_{1}\right)\epsilon_{jk}\left(ar{q}_{3}u_{1}\right)$	\mathbf{C}
lequ1_2132	$\left(\underline{\ell}_{2}e_{1}\right)\epsilon_{jk}\left(ar{q}_{3}u_{2} ight)$	\mathbf{C}
lequ1_2133	$\left(\ell_{2}e_{1} ight)\epsilon_{jk}\left(ar{q}_{3}u_{3} ight)$	C
lequ1_2211	$\left(\ell_{2}e_{2} ight) \epsilon_{jk}\left(ar{q}_{1}u_{1} ight)$	C
lequ1_2212	$\left(\ell_{2}e_{2} ight)\epsilon_{jk}\left(ar{q}_{1}u_{2} ight)$	C
lequ1_2213	$\left(\ell_{2}e_{2} ight)\epsilon_{jk}\left(ar{q}_{1}u_{3} ight)$	C
lequ1_2221	$\left(\ell_{2}e_{2} ight)\epsilon_{jk}\left(ar{q}_{2}u_{1} ight)$	\mathbf{C}

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WC name	Operator	Туре
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	legu1 2222		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	=) — (
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lequ1_3123 $(\bar{\ell}_3 e_1) \epsilon_{jk} (\bar{q}_2 u_3)$ C lequ1_3131 $(\bar{\ell}_3 e_1) \epsilon_{jk} (\bar{q}_3 u_1)$ C			
lequ1_3131 $\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$ C	_) = (v ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
_\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	=		
lequ1_3133 $(\bar{\ell}_3 e_1) \epsilon_{jk} (\bar{q}_3 u_3)$ C	=	i = 1	
lequ1_3211 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_1 u_1)$ C	=	>- {	
lequ1_3212 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_1 u_2)$ C	=) — (
lequ1_3213 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_1 u_3)$ C) — (
lequ1_3221 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_2 u_1)$ C	=)— (· ·	
lequ1_3222 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_2 u_2)$ C	=) — (
lequ1_3223 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_2 u_3)$ C	lequ1_3223) — (\mathbf{C}
lequ1_3231 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_3 u_1)$ C	_		\mathbf{C}
lequ1_3232 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_3 u_2)$ C	_		\mathbf{C}
lequ1_3233 $(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_3 u_3)$ C	=) — (\mathbf{C}
lequ1_3311 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_1 u_1)$ C	_		\mathbf{C}
lequ1_3312 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_1 u_2)$ C	lequ1_3312		\mathbf{C}
lequ1_3313 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_1 u_3)$ C	lequ1_3313	>= { -	\mathbf{C}
lequ1_3321 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_2 u_1)$ C	lequ1_3321		\mathbf{C}
lequ1_3322 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_2 u_2)$ C	lequ1_3322) = (v ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	\mathbf{C}
lequ1_3323 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_2 u_3)$ C	lequ1_3323) =	\mathbf{C}
lequ1_3331 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_3 u_1)$ C	lequ1_3331		
lequ1_3332 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_3 u_2)$ C	lequ1_3332		
lequ1_3333 $(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_3 u_3)$ C	lequ1_3333		
lequ3_1111 $ (\bar{\ell}_1 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1) $ C	lequ3_1111	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	\mathbf{C}

WC name	Operator	Type
lequ3_1112	$\left(\bar{\ell}_{1}\sigma_{\mu\nu}e_{1}\right)\epsilon_{jk}\left(\bar{q}_{1}\sigma^{\mu\nu}u_{2}\right)$	$^{\rm C}$
lequ3_1113	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_1121	$(ar{\ell}_1\sigma_{\mu u}e_1)\epsilon_{jk}(ar{q}_2\sigma^{\mu u}u_1)$	\mathbf{C}
lequ3_1122	$(\bar{\ell}_1 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$	\mathbf{C}
lequ3_1123	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_1131	$(\bar{\ell}_1 \sigma_{\mu u} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu u} u_1)$	\mathbf{C}
lequ3_1132	$(\bar{\ell}_1 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$	\mathbf{C}
lequ3_1133	$\left(\bar{\ell}_1\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)$	\mathbf{C}
lequ3_1211	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_1212	$\left(ar{\ell}_1 \sigma_{\mu u} e_2 \right) \epsilon_{jk} \left(ar{q}_1 \sigma^{\mu u} u_2 \right)$	\mathbf{C}
lequ3_1213	$\left(\bar{\ell}_1\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)$	\mathbf{C}
lequ3_1221	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_1\right)$	\mathbf{C}
lequ3_1222	$\left(ar{\ell}_{1}\sigma_{\mu u}e_{2} ight)\epsilon_{jk}\left(ar{q}_{2}\sigma^{\mu u}u_{2} ight)$	\mathbf{C}
lequ3_1223	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_3\right)$	\mathbf{C}
lequ3_1231	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_1\right)$	\mathbf{C}
lequ3_1232	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_1233	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_1311	$\left(ar{\ell}_1\sigma_{\mu u}e_3\right)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_1312	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_1313	$\left(\ell_1\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu\nu}u_3\right)$	\mathbf{C}
lequ3_1321	$\left(\bar{\ell}_1 \sigma_{\mu u} e_3\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu u} u_1\right)$	\mathbf{C}
lequ3_1322	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_1323	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_1331	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_1332	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_1333	$\left(\ell_{1}\sigma_{\mu u}e_{3} ight)\epsilon_{jk}\left(ar{q}_{3}\sigma^{\mu u}u_{3} ight)$	\mathbf{C}
lequ3_2111	$\left(\ell_2 \sigma_{\mu u} e_1\right) \epsilon_{jk} \left(ar{q}_1 \sigma^{\mu u} u_1 ight)$	\mathbf{C}
lequ3_2112	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_2113	$\left(\underline{\ell}_{2}\sigma_{\mu\nu}e_{1}\right)\epsilon_{jk}\left(ar{q}_{1}\sigma^{\mu\nu}u_{3} ight)$	\mathbf{C}
lequ3_2121	$\left(\ell_2\sigma_{\mu\nu}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu\nu}u_1 ight)$	\mathbf{C}
lequ3_2122	$\left(\ell_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_2123	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2131	$\left(\ell_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_1\right)$	\mathbf{C}
lequ3_2132	$\left(\ell_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_2133	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2211	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_2212	$\left(\ell_2 \sigma_{\mu u} e_2\right) \epsilon_{jk} \left(ar{q}_1 \sigma^{\mu u} u_2 ight)$	\mathbf{C}
lequ3_2213	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2221	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_2222	$\left(\ell_2 \sigma_{\mu u} e_2\right) \epsilon_{jk} \left(ar{q}_2 \sigma^{\mu u} u_2\right)$	\mathbf{C}
lequ3_2223	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2231	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_1\right)$	$^{\mathrm{C}}$

WC name	Operator	Type
lequ3_2232	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_2\right)$	C
lequ3_2233	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2311	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_2312	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_2313	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2321	$\left(\bar{\ell}_2\sigma_{\mu u}e_3\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu u}u_1 ight)$	$^{\mathrm{C}}$
lequ3_2322	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	C
lequ3_2323	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	$^{\mathrm{C}}$
lequ3_2331	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	$^{\mathrm{C}}$
lequ3_2332	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	C
lequ3_2333	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	$^{\mathrm{C}}$
lequ3_3111	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	$^{\mathrm{C}}$
lequ3_3112	$\left(\ell_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
lequ3_3113	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	C
lequ3_3121	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	C
lequ3_3122	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
lequ3_3123	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	$^{\mathrm{C}}$
lequ3_3131	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	$^{\mathrm{C}}$
lequ3_3132	$\left(\ell_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
lequ3_3133	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	C
lequ3_3211	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	$^{\mathrm{C}}$
lequ3_3212	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
lequ3_3213	$\left(\underline{\ell}_{3}\sigma_{\mu u}e_{2}\right)\epsilon_{jk}\left(ar{q}_{1}\sigma^{\mu u}u_{3} ight)$	C
lequ3_3221	$\left(\ell_3 \sigma_{\mu u} e_2\right) \epsilon_{jk} \left(ar{q}_2 \sigma^{\mu u} u_1 \right)$	\mathbf{C}
lequ3_3222	$\left(ar{\ell}_{3}\sigma_{\mu u}e_{2} ight)\epsilon_{jk}\left(ar{q}_{2}\sigma^{\mu u}u_{2} ight)$	$^{\mathrm{C}}$
lequ3_3223	$\left(\ell_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	$^{\mathrm{C}}$
lequ3_3231	$\left(\ell_3 \sigma_{\mu u} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu u} u_1 \right)$	\mathbf{C}
lequ3_3232	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_3233	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	$^{\mathrm{C}}$
lequ3_3311	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	$^{\mathrm{C}}$
lequ3_3312	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
lequ3_3313	$\left(ar{\ell}_{3}\sigma_{\mu u}e_{3} ight)\epsilon_{jk}\left(ar{q}_{1}\sigma^{\mu u}u_{3} ight)$	$^{\mathrm{C}}$
lequ3_3321	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	C
lequ3_3322	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
lequ3_3323	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	C
lequ3_3331	$\left(\bar{\ell}_3\sigma_{\mu u}e_3\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu u}u_1 ight)$	C
lequ3_3332	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	C
lequ3_3333	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	C

dB=dL=1

WC name	Operator	Type
duql_1111	$(d_1Cu_1)(q_1C\ell_1)$	C
duql_1112	$(d_1Cu_1)(q_1C\ell_2)$	\mathbf{C}
duql_1113	$(d_1Cu_1)(q_1C\ell_3)$	\mathbf{C}
duql_1121	$(d_1Cu_1)(q_2C\ell_1)$	\mathbf{C}
duql_1122	$(d_1Cu_1)(q_2C\ell_2)$	\mathbf{C}
duq1_1123	$\left(d_{1}Cu_{1}\right)\left(q_{2}C\ell_{3}\right)$	\mathbf{C}
duq1_1131	$\left(d_{1}Cu_{1}\right)\left(q_{3}C\ell_{1}\right)$	\mathbf{C}
duql_1132	$\left(d_{1}Cu_{1}\right)\left(q_{3}C\ell_{2}\right)$	\mathbf{C}
duq1_1133	$(d_1Cu_1)(q_3C\ell_3)$	\mathbf{C}
duql_1211	$\left(d_{1}Cu_{2}\right)\left(q_{1}C\ell_{1}\right)$	\mathbf{C}
duql_1212	$(d_1Cu_2)(q_1C\ell_2)$	\mathbf{C}
duql_1213	$(d_1Cu_2)(q_1C\ell_3)$	\mathbf{C}
duq1_1221	$(d_1Cu_2)(q_2C\ell_1)$	\mathbf{C}
duql_1222	$(d_1Cu_2)(q_2C\ell_2)$	\mathbf{C}
duq1_1223	$(d_1Cu_2)(q_2C\ell_3)$	\mathbf{C}
duq1_1231	$(d_1Cu_2)(q_3C\ell_1)$	\mathbf{C}
duq1_1232	$(d_1Cu_2)(q_3C\ell_2)$	\mathbf{C}
duq1_1233	$(d_1Cu_2)(q_3C\ell_3)$	\mathbf{C}
duq1_1311	$(d_1Cu_3)(q_1C\ell_1)$	\mathbf{C}
duq1_1312	$(d_1Cu_3)(q_1C\ell_2)$	\mathbf{C}
duq1_1313	$(d_1Cu_3)(q_1C\ell_3)$	C
duq1_1321	$(d_1Cu_3)(q_2C\ell_1)$	C
duql_1322	$(d_1Cu_3)(q_2C\ell_2)$	C
duq1_1323	$(d_1Cu_3)(q_2C\ell_3)$	C
duql_1331	$(d_1Cu_3)(q_3C\ell_1)$	C
duq1_1332	$(d_1Cu_3)(q_3C\ell_2)$	C
duq1_1333	$(d_1Cu_3)(q_3C\ell_3)$	C
duq1_2111	$(d_2Cu_1)(q_1C\ell_1)$	C
duq1_2112	$(d_2Cu_1)(q_1C\ell_2)$	C
duq1_2113	$(d_2Cu_1)(q_1C\ell_3)$	C
duq1_2121	$(d_2Cu_1)(q_2C\ell_1)$	C
duq1_2122	$(d_2Cu_1)(q_2C\ell_2)$	С
duq1_2123	$(d_2Cu_1)(q_2C\ell_3)$	С
duq1_2131	$(d_2Cu_1)(q_3C\ell_1)$	С
duq1_2132	$(d_2Cu_1)(q_3C\ell_2)$	С
duq1_2133	$(d_2Cu_1)(q_3C\ell_3)$	С
duq1_2211	$(d_2Cu_2)(q_1C\ell_1)$	С
duq1_2212	$(d_2Cu_2)(q_1C\ell_2)$	С
duq1_2213	$(d_2Cu_2)(q_1C\ell_3)$	С
duq1_2221	$(d_2Cu_2)(q_2C\ell_1)$	C C
duq1_2222	$(d_2Cu_2)(q_2C\ell_2)$	C
duql_2223	$(d_2Cu_2)(q_2C\ell_3)$	C
duq1_2231	$(d_2Cu_2)(q_3C\ell_1)$	C
duq1_2232	$(d_2Cu_2)(q_3C\ell_2)$	C

WC name	Operator	Type
duq1_2233	$(d_2Cu_2)(q_3C\ell_3)$	С
duq1_2311	$\left(d_{2}Cu_{3}\right)\left(q_{1}C\ell_{1}\right)$	\mathbf{C}
duq1_2312	$\left(d_{2}Cu_{3}\right)\left(q_{1}C\ell_{2}\right)$	\mathbf{C}
duq1_2313	$\left(d_{2}Cu_{3}\right)\left(q_{1}C\ell_{3}\right)$	\mathbf{C}
duq1_2321	$\left(d_{2}Cu_{3}\right)\left(q_{2}C\ell_{1}\right)$	\mathbf{C}
duq1_2322	$\left(d_{2}Cu_{3}\right)\left(q_{2}C\ell_{2}\right)$	\mathbf{C}
duq1_2323	$\left(d_2Cu_3\right)\left(q_2C\ell_3\right)$	\mathbf{C}
duq1_2331	$\left(d_{2}Cu_{3}\right)\left(q_{3}C\ell_{1}\right)$	\mathbf{C}
duq1_2332	$\left(d_{2}Cu_{3}\right)\left(q_{3}C\ell_{2}\right)$	\mathbf{C}
duq1_2333	$\left(d_{2}Cu_{3}\right)\left(q_{3}C\ell_{3}\right)$	\mathbf{C}
duq1_3111	$\left(d_3Cu_1\right)\left(q_1C\ell_1\right)$	\mathbf{C}
duq1_3112	$\left(d_3Cu_1\right)\left(q_1C\ell_2\right)$	\mathbf{C}
duq1_3113	$\left(d_3Cu_1\right)\left(q_1C\ell_3\right)$	\mathbf{C}
duq1_3121	$\left(d_3Cu_1\right)\left(q_2C\ell_1\right)$	\mathbf{C}
duql_3122	$\left(d_3Cu_1\right)\left(q_2C\ell_2\right)$	\mathbf{C}
duq1_3123	$\left(d_3Cu_1\right)\left(q_2C\ell_3\right)$	\mathbf{C}
duq1_3131	$\left(d_3Cu_1\right)\left(q_3C\ell_1\right)$	\mathbf{C}
duql_3132	$\left(d_3Cu_1\right)\left(q_3C\ell_2\right)$	\mathbf{C}
duq1_3133	$\left(d_3Cu_1\right)\left(q_3C\ell_3\right)$	\mathbf{C}
duq1_3211	$\left(d_3Cu_2\right)\left(q_1C\ell_1\right)$	\mathbf{C}
duql_3212	$(d_3Cu_2)(q_1C\ell_2)$	\mathbf{C}
duq1_3213	$(d_3Cu_2)(q_1C\ell_3)$	\mathbf{C}
duq1_3221	$(d_3Cu_2)(q_2C\ell_1)$	\mathbf{C}
duq1_3222	$(d_3Cu_2)(q_2C\ell_2)$	\mathbf{C}
duq1_3223	$(d_3Cu_2)(q_2C\ell_3)$	\mathbf{C}
duq1_3231	$(d_3Cu_2)(q_3C\ell_1)$	\mathbf{C}
duq1_3232	$(d_3Cu_2)(q_3C\ell_2)$	\mathbf{C}
duq1_3233	$(d_3Cu_2)(q_3C\ell_3)$	C
duq1_3311	$(d_3Cu_3)(q_1C\ell_1)$	C
duq1_3312	$(d_3Cu_3)(q_1C\ell_2)$	C
duq1_3313	$(d_3Cu_3)(q_1C\ell_3)$	C
duq1_3321	$(d_3Cu_3)(q_2C\ell_1)$	C
duq1_3322	$(d_3Cu_3)(q_2C\ell_2)$	C
duq1_3323	$(d_3Cu_3)(q_2C\ell_3)$	C
duq1_3331	$(d_3Cu_3)(q_3C\ell_1)$	C
duq1_3332	$(d_3Cu_3)(q_3C\ell_2)$	C
duq1_3333	$(d_3Cu_3)(q_3C\ell_3)$	$\stackrel{ ext{C}}{\approx}$
qque_1111	$(q_1Cq_1)(u_1Ce_1)$	С
qque_1112	$(q_1Cq_1)(u_1Ce_2)$	С
qque_1113	$(q_1Cq_1)(u_1Ce_3)$	С
qque_1121	$(q_1Cq_1)(u_2Ce_1)$	С
qque_1122	$(q_1Cq_1)(u_2Ce_2)$	С
qque_1123	$(q_1Cq_1)(u_2Ce_3)$	С
qque_1131	$(q_1Cq_1)(u_3Ce_1)$	\mathbf{C}

$\begin{array}{llllllllllllllllllllllllllllllllllll$	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	qque_1132	$(q_1Cq_1)(u_3Ce_2)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(q_{1}Cq_{1}\right)\left(u_{3}Ce_{3}\right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(q_{1}Cq_{2}\right)\left(u_{1}Ce_{1}\right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(q_{1}Cq_{2}\right)\left(u_{1}Ce_{3}\right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(q_{1}Cq_{2}\right)\left(u_{2}Ce_{1}\right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(q_1 C q_2\right) \left(u_2 C e_2\right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(q_{1}Cq_{2}\right)\left(u_{2}Ce_{3}\right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	qque_1232	· / · /	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$			=
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	qque_2332		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
qque_3313 $(q_3Cq_3)(u_1Ce_3)$ C qque_3321 $(q_3Cq_3)(u_2Ce_1)$ C qque_3322 $(q_3Cq_3)(u_2Ce_2)$ C			
qque_3321 $(q_3Cq_3)(u_2Ce_1)$ C qque_3322 $(q_3Cq_3)(u_2Ce_2)$ C			
qque_3322 $(q_3Cq_3)(u_2Ce_2)$ C			
11 = (10 10) (2 2)			
qque_3323 $(q_3Cq_3)(u_2Ce_3)$ C			
	qque_3323	$\left(q_3Cq_3\right)\left(u_2Ce_3\right)$	С

WC name	Operator	Type
qque_3331	$(q_3Cq_3)(u_3Ce_1)$	C
qque_3332	$\left(q_3Cq_3\right)\left(u_3Ce_2\right)$	\mathbf{C}
qque_3333	$\left(q_3Cq_3\right)\left(u_3Ce_3\right)$	\mathbf{C}
qqql_1111	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{1}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqql_1112	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{1}C\ell_{2} ight)$	\mathbf{C}
qqql_1113	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{1}C\ell_{3} ight)$	\mathbf{C}
qqql_1121	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{2}C\ell_{1} ight)$	\mathbf{C}
qqql_1122	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{2}C\ell_{2} ight)$	\mathbf{C}
qqq1_1123	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{2}C\ell_{3} ight)$	\mathbf{C}
qqq1_1131	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{3}C\ell_{1} ight)$	\mathbf{C}
qqq1_1132	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{3}C\ell_{2} ight)$	\mathbf{C}
qqql_1133	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{3}C\ell_{3} ight)$	\mathbf{C}
qqql_1211	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2} ight)\left(q_{1}C\ell_{1} ight)$	\mathbf{C}
qqql_1212	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2} ight)\left(q_{1}C\ell_{2} ight)$	\mathbf{C}
qqql_1213	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2} ight)\left(q_{1}C\ell_{3} ight)$	\mathbf{C}
qqql_1221	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{1}\right)$	\mathbf{C}
qqql_1222	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{2}\right)$	\mathbf{C}
qqql_1223	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2} ight)\left(q_{2}C\ell_{3} ight)$	\mathbf{C}
qqql_1231	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2} ight)\left(q_{3}C\ell_{1} ight)$	\mathbf{C}
qqql_1232	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{3}C\ell_{2}\right)$	\mathbf{C}
qqql_1233	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2} ight)\left(q_{3}C\ell_{3} ight)$	\mathbf{C}
qqql_1311	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3} ight)\left(q_{1}C\ell_{1} ight)$	\mathbf{C}
qqql_1312	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3} ight)\left(q_{1}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqql_1313	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3} ight)\left(q_{1}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_1321	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3} ight)\left(q_{2}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqql_1322	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3} ight)\left(q_{2}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqql_1323	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{2}C\ell_{3}\right)$	$^{\mathrm{C}}$
qqql_1331	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3} ight)\left(q_{3}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqql_1332	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{2}\right)$	$^{\mathrm{C}}$
qqql_1333	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{3}\right)$	\mathbf{C}
qqq1_2121	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1}\right)\left(q_{2}C\ell_{1}\right)$	\mathbf{C}
qqql_2122	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1}\right)\left(q_{2}C\ell_{2}\right)$	\mathbf{C}
qqql_2123	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{2}C\ell_{3} ight)$	\mathbf{C}
qqq1_2131	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{1} ight)$	\mathbf{C}
qqq1_2132	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{2} ight)$	\mathbf{C}
qqql_2133	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqq1_2221	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{1} ight)$	C
qqq1_2222	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{2} ight)$	C
qqq1_2223	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{3} ight)$	C
qqq1_2231	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2}\right)\left(q_{3}C\ell_{1}\right)$	C
qqq1_2232	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2}\right)\left(q_{3}C\ell_{2}\right)$	C
qqq1_2233	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{3}C\ell_{3} ight)$	C
qqql_2311	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3}\right)\left(q_{1}C\ell_{1}\right)$	C
qqql_2312	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3}\right)\left(q_{1}C\ell_{2}\right)$	\mathbf{C}

WC name	Operator	Type
qqq1_2313	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3}\right)\left(q_{1}C\ell_{3}\right)$	С
qqq1_2321	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{2}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqq1_2322	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{2}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqq1_2323	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{2}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_2331	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{3}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqq1_2332	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqq1_2333	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_3131	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqql_3132	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqql_3133	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_3231	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{2} ight)\left(q_{3}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqq1_3232	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{2} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqq1_3233	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{2} ight)\left(q_{3}C\ell_{3} ight)$	\mathbf{C}
qqq1_3331	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{3} ight)\left(q_{3}C\ell_{1} ight)$	\mathbf{C}
qqq1_3332	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{3} ight)\left(q_{3}C\ell_{2} ight)$	\mathbf{C}
qqq1_3333	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{3} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
duue_1111	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{1}\right)$	$^{\mathrm{C}}$
duue_1112	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{2}\right)$	$^{\mathrm{C}}$
duue_1113	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{3}\right)$	$^{\mathrm{C}}$
duue_1121	$\left(d_{1}Cu_{1}\right)\left(u_{2}Ce_{1}\right)$	$^{\mathrm{C}}$
duue_1122	$\left(d_{1}Cu_{1}\right)\left(u_{2}Ce_{2}\right)$	$^{\mathrm{C}}$
duue_1123	$(d_1Cu_1)(u_2Ce_3)$	$^{\mathrm{C}}$
duue_1131	$\left(d_{1}Cu_{1}\right)\left(u_{3}Ce_{1}\right)$	$^{\mathrm{C}}$
duue_1132	$\left(d_{1}Cu_{1}\right)\left(u_{3}Ce_{2}\right)$	$^{\mathrm{C}}$
duue_1133	$\left(d_{1}Cu_{1}\right)\left(u_{3}Ce_{3}\right)$	$^{\mathrm{C}}$
duue_1211	$(d_1Cu_2)\left(u_1Ce_1\right)$	$^{\mathrm{C}}$
duue_1212	$(d_1Cu_2)\left(u_1Ce_2\right)$	$^{\mathrm{C}}$
duue_1213	$(d_1Cu_2)\left(u_1Ce_3\right)$	$^{\mathrm{C}}$
duue_1221	$(d_1Cu_2)\left(u_2Ce_1\right)$	$^{\mathrm{C}}$
duue_1222	$\left(d_{1}Cu_{2}\right)\left(u_{2}Ce_{2}\right)$	$^{\mathrm{C}}$
duue_1223	$(d_1Cu_2)(u_2Ce_3)$	$^{\mathrm{C}}$
duue_1231	$(d_1Cu_2)\left(u_3Ce_1\right)$	$^{\mathrm{C}}$
duue_1232	$(d_1Cu_2)\left(u_3Ce_2\right)$	$^{\mathrm{C}}$
duue_1233	$(d_1Cu_2)\left(u_3Ce_3\right)$	$^{\mathrm{C}}$
duue_1311	$(d_1Cu_3)\left(u_1Ce_1\right)$	$^{\mathrm{C}}$
duue_1312	$(d_1Cu_3)(u_1Ce_2)$	$^{\mathrm{C}}$
duue_1313	$(d_1Cu_3)(u_1Ce_3)$	$^{\mathrm{C}}$
duue_1321	$(d_1Cu_3)(u_2Ce_1)$	$^{\mathrm{C}}$
duue_1322	$(d_1Cu_3)(u_2Ce_2)$	$^{\mathrm{C}}$
duue_1323	$(d_1Cu_3)(u_2Ce_3)$	$^{\mathrm{C}}$
duue_1331	$(d_1Cu_3)(u_3Ce_1)$	C
duue_1332	$(d_1Cu_3)(u_3Ce_2)$	C
duue_1333	$(d_1Cu_3)(u_3Ce_3)$	C
duue_2111	$(d_2Cu_1)(u_1Ce_1)$	$^{\mathrm{C}}$

WC name	Operator	Type
duue_2112	$\left(d_{2}Cu_{1}\right)\left(u_{1}Ce_{2}\right)$	C
duue_2113	$(d_2Cu_1)(u_1Ce_3)$	$^{\mathrm{C}}$
duue_2121	$\left(d_{2}Cu_{1}\right)\left(u_{2}Ce_{1}\right)$	\mathbf{C}
duue_2122	$(d_2Cu_1)(u_2Ce_2)$	$^{\mathrm{C}}$
duue_2123	$\left(d_{2}Cu_{1}\right)\left(u_{2}Ce_{3}\right)$	\mathbf{C}
duue_2131	$\left(d_{2}Cu_{1}\right)\left(u_{3}Ce_{1}\right)$	\mathbf{C}
duue_2132	$\left(d_{2}Cu_{1}\right)\left(u_{3}Ce_{2}\right)$	\mathbf{C}
duue_2133	$\left(d_{2}Cu_{1}\right)\left(u_{3}Ce_{3}\right)$	\mathbf{C}
duue_2211	$\left(d_{2}Cu_{2}\right)\left(u_{1}Ce_{1}\right)$	\mathbf{C}
duue_2212	$(d_2Cu_2)(u_1Ce_2)$	\mathbf{C}
duue_2213	$(d_2Cu_2)(u_1Ce_3)$	\mathbf{C}
duue_2221	$\left(d_{2}Cu_{2}\right)\left(u_{2}Ce_{1}\right)$	\mathbf{C}
duue_2222	$(d_2Cu_2)(u_2Ce_2)$	\mathbf{C}
duue_2223	$(d_2Cu_2)(u_2Ce_3)$	\mathbf{C}
duue_2231	$\left(d_{2}Cu_{2}\right)\left(u_{3}Ce_{1}\right)$	\mathbf{C}
duue_2232	$(d_2Cu_2)(u_3Ce_2)$	$^{\mathrm{C}}$
duue_2233	$(d_2Cu_2)(u_3Ce_3)$	$^{\mathrm{C}}$
duue_2311	$(d_2Cu_3)(u_1Ce_1)$	$^{\mathrm{C}}$
duue_2312	$(d_2Cu_3)(u_1Ce_2)$	$^{\mathrm{C}}$
duue_2313	$(d_2Cu_3)(u_1Ce_3)$	\mathbf{C}
duue_2321	$\left(d_{2}Cu_{3}\right)\left(u_{2}Ce_{1}\right)$	\mathbf{C}
duue_2322	$(d_2Cu_3)(u_2Ce_2)$	\mathbf{C}
duue_2323	$(d_2Cu_3)(u_2Ce_3)$	\mathbf{C}
duue_2331	$(d_2Cu_3)(u_3Ce_1)$	\mathbf{C}
duue_2332	$(d_2Cu_3)(u_3Ce_2)$	\mathbf{C}
duue_2333	$(d_2Cu_3)(u_3Ce_3)$	\mathbf{C}
duue_3111	$\left(d_3Cu_1\right)\left(u_1Ce_1\right)$	\mathbf{C}
duue_3112	$\left(d_3Cu_1\right)\left(u_1Ce_2\right)$	\mathbf{C}
duue_3113	$(d_3Cu_1)(u_1Ce_3)$	\mathbf{C}
duue_3121	$\left(d_3Cu_1\right)\left(u_2Ce_1\right)$	\mathbf{C}
duue_3122	$\left(d_3Cu_1\right)\left(u_2Ce_2\right)$	\mathbf{C}
duue_3123	$(d_3Cu_1)(u_2Ce_3)$	\mathbf{C}
duue_3131	$\left(d_3Cu_1\right)\left(u_3Ce_1\right)$	\mathbf{C}
duue_3132	$\left(d_3Cu_1\right)\left(u_3Ce_2\right)$	\mathbf{C}
duue_3133	$\left(d_3Cu_1\right)\left(u_3Ce_3\right)$	\mathbf{C}
duue_3211	$\left(d_3Cu_2\right)\left(u_1Ce_1\right)$	$^{\mathrm{C}}$
duue_3212	$(d_3Cu_2)(u_1Ce_2)$	\mathbf{C}
duue_3213	$(d_3Cu_2)(u_1Ce_3)$	$^{\mathrm{C}}$
duue_3221	$\left(d_3Cu_2\right)\left(u_2Ce_1\right)$	$^{\mathrm{C}}$
duue_3222	$(d_3Cu_2)(u_2Ce_2)$	\mathbf{C}
duue_3223	$(d_3Cu_2)(u_2Ce_3)$	\mathbf{C}
duue_3231	$\left(d_3Cu_2\right)\left(u_3Ce_1\right)$	\mathbf{C}
duue_3232	$(d_3Cu_2)(u_3Ce_2)$	$^{\mathrm{C}}$
duue_3233	$(d_3Cu_2)(u_3Ce_3)$	$^{\mathrm{C}}$

WC name	Operator	Type
duue_3311	$(d_3Cu_3)(u_1Ce_1)$	C
duue_3312	$(d_3Cu_3)(u_1Ce_2)$	C
duue_3313	$(d_3Cu_3)(u_1Ce_3)$	C
duue_3321	$(d_3Cu_3)(u_2Ce_1)$	C
duue_3322	$(d_3Cu_3)(u_2Ce_2)$	$^{\mathrm{C}}$
duue_3323	$\left(d_3Cu_3\right)\left(u_2Ce_3\right)$	$^{\mathrm{C}}$
duue_3331	$(d_3Cu_3)(u_3Ce_1)$	$^{\mathrm{C}}$
duue_3332	$(d_3Cu_3)(u_3Ce_2)$	C
duue_3333	$(d_3Cu_3)(u_3Ce_3)$	$^{\mathrm{C}}$

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WC name	Operator	Type
llphiphi_11	$\left(\widetilde{arphi}^{\dagger}\ell_{1} ight)^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{1} ight)$	C
llphiphi_22	$\left(\widetilde{arphi}^{\dagger}\ell_{2}\right)^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{2}\right)$	\mathbf{C}
llphiphi_33	$\left(\widetilde{\varphi}^{\dagger}\ell_{3}\right)^{T}C\left(\widetilde{\varphi}^{\dagger}\ell_{3}\right)$	\mathbf{C}