Basis Warsaw (EFT SMEFT)

Basis suggested by Grzadkowski, Iskrzyński, Misiak, and Rosiek (arXiv:1008.4884v3). At variance with their definition, the Wilson coefficients are defined to be dimensionful, such that $\mathcal{L} = \sum_i C_i O_i$. The set of redundant operators coincides with the choice of DSixTools (arXiv:1704.04504). The weak basis for the fermion fields is chosen such that the running dimension-6 mass matrices of charged leptons and down-type quarks are diagonal at the scale where the coefficient values are specified, while up-type quark singlet field is rotated to diagonalise the running dimension-6 up-type quark mass matrix "from the right".

Sectors

The effective Lagrangian is defined as

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

dB=dL=0

WC name	Operator	Type
G	$f^{ABC}G^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	R
Gtilde	$f^{ABC}\widetilde{G}^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ u}$	R
W	$\epsilon^{IJK}W_{\mu}^{I u}W_{ u}^{J ho}W_{ u}^{K\mu}$	R
Wtilde	$\epsilon^{IJK}\widetilde{W}_{\mu}^{I u}W_{ u}^{J ho}W_{ ho}^{'K\mu}$	${ m R}$
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	$arphi^\dagger arphi G^A_{\mu u} G^{A\mu u} \ arphi^\dagger arphi B_{\mu u} B^{\mu u}$	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	$arphi^\dagger au^I arphi W^I_{\mu u} B^{\mu u}$	R
phiGtilde	$arphi^{\dagger} arphi \overset{\mu}{\widetilde{C}} \overset{\mu}{A} \overset{\mu}{C} \overset{\mu}{C} \overset{\mu}{A} \overset{\mu}{\mu} \overset{\nu}{V}$	R
phiBtilde	$arphi^{\intercal}arphi B_{\mu u} B^{\mu u}$	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	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_1\widetilde{arphi} ight)$	\mathbf{C}
uphi_12	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_2\widetilde{arphi} ight)$	C
uphi_13	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_3\widetilde{arphi} ight)$	\mathbf{C}
uphi_21	$\left(arphi^\daggerarphi ight)\left(ar{q}_2u_1\widetilde{arphi} ight)$	$^{\mathrm{C}}$
uphi_22	$\left(arphi^\daggerarphi ight)\left(ar{q}_2u_2\widetilde{arphi} ight)$	$^{\mathrm{C}}$
uphi_23	$\left(arphi^\daggerarphi ight)\left(ar{q}_2u_3\widetilde{arphi} ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
uphi_31	$\left(\varphi^{\dagger}\varphi\right)\left(\bar{q}_{3}u_{1}\widetilde{\varphi}\right)$	C
uphi_32	$\left(arphi^\daggerarphi ight)\left(ar{q}_3u_2\widetilde{arphi} ight)$	$^{\mathrm{C}}$
uphi_33	$\left(arphi^\daggerarphi ight)\left(ar{q}_3u_3\widetilde{arphi} ight)$	\mathbf{C}
dphi_11	$\left(arphi_{_{\parallel}}^{\dagger}arphi ight)\left(ar{q}_{1}d_{1}arphi ight)$	$^{\mathrm{C}}$
dphi_12	$\left(arphi_{_{-}}^{\dagger}arphi ight)\left(ar{q}_{1}d_{2}arphi ight)$	\mathbf{C}
dphi_13	$\left(arphi^\daggerarphi ight)\left(ar{q}_1d_3arphi ight)$	\mathbf{C}
dphi_21	$\left(arphi^\daggerarphi ight)\left(ar{q}_2d_1arphi ight)$	C
dphi_22	$\left(arphi_{_{\perp}}^{\dagger}arphi ight)\left(ar{q}_{2}d_{2}arphi ight)$	C
dphi_23	$\left(arphi_{_{\perp}}^{\dagger}arphi ight)\left(ar{q}_{2}d_{3}arphi ight)$	$\stackrel{ ext{C}}{\sim}$
dphi_31	$\left(arphi_{_{\pm}}^{\dagger}arphi ight)\left(ar{q}_{3}d_{1}arphi ight)$	$\stackrel{ ext{C}}{\sim}$
dphi_32	$\left(arphi_{_{\pm}}^{\dagger}arphi ight)\left(ar{q}_{3}d_{2}arphi ight)$	$\stackrel{ ext{C}}{ ilde{ ilde{c}}}$
dphi_33	$\left(arphi^\daggerarphi ight)\left(ar{q}_3d_3arphi ight)$	C
ephi_11	$\left(arphi_{_{\pm}}^{\dagger}arphi ight)\left(ar{\ell}_{_{1}}e_{1}arphi ight)$	C
ephi_12	$\left(arphi^\daggerarphi ight)\left(ar\ell_1e_2arphi ight)$	C
ephi_13	$\left(arphi_{_{\pm}}^{\dagger}arphi ight)\left(ar{\ell}_{1}e_{3}arphi ight)$	C
ephi_21	$\left(arphi^\daggerarphi ight)\left(ar{\ell}_2e_1arphi ight)$	C
ephi_22	$\left(arphi^{\dagger}arphi ight)\left(ar{\ell}_{2}e_{2}arphi ight)$	$\stackrel{ ext{C}}{\sim}$
ephi_23	$\left(arphi_{_{\pm}}^{\dagger}arphi ight)\left(ar{ar{\ell}}_{2}e_{3}arphi ight)$	$\stackrel{ ext{C}}{\sim}$
ephi_31	$\left(arphi^{\dagger}arphi ight)\left(ar{\ell}_{3}e_{1}arphi ight)$	$\stackrel{ ext{C}}{\sim}$
ephi_32	$\left(arphi_{_{\perp}}^{\dagger}arphi ight)\left(ar{ar{\ell}}_{_{3}}e_{2}arphi ight)$	C
ephi_33	$\left(arphi^\daggerarphi ight)\left(ar\ell_3e_3arphi ight)$	C
eW_11	$\left(\ell_1\sigma^{\mu u}e_1 ight) au^Iarphi W^I_{\mu u}$	C
eW_12	$\left(ar{\ell}_1\sigma^{\mu u}e_2 ight) au^Iarphi W^I_{\mu u}$	$^{\mathrm{C}}$
eW_13	$\left(ar{\ell}_1\sigma^{\mu u}e_3 ight) au^Iarphi W^I_{\mu u}$	$^{\mathrm{C}}$
eW_21	$\left(ar{\ell}_2\sigma^{\mu u}e_1 ight) au^Iarphi W^I_{\mu u}$	$^{\mathrm{C}}$
eW_22	$\left(ar{\ell}_2\sigma^{\mu u}e_2 ight) au^Iarphi W^I_{\mu u}$	\mathbf{C}
eW_23	$\left(ar{\ell}_2\sigma^{\mu u}e_3 ight) au^Iarphi W^I_{\mu u}$	\mathbf{C}
eW_31	$\left(\underline{\ell}_3\sigma^{\mu u}e_1 ight) au^Iarphi W^I_{\mu u}$	\mathbf{C}
eW_32	$\left(ar{\ell}_3\sigma^{\mu u}e_2 ight) au^Iarphi W^I_{\mu u}$	$^{\mathrm{C}}$
eW_33	$\left(ar{\ell}_3\sigma^{\mu u}e_3 ight) au^Iarphi W^I_{\mu u}$	$^{\mathrm{C}}$
eB_11	$\left(ar{\ell}_1\sigma^{\mu u}e_1 ight)arphi B_{\mu u}$	$^{\mathrm{C}}$
eB_12	$\left(ar{\ell}_1\sigma^{\mu u}e_2 ight)arphi B_{\mu u}$	$^{\mathrm{C}}$
eB_13	$\left(ar{\ell}_1\sigma^{\mu u}e_3 ight)arphi B_{\mu u}$	$^{\mathrm{C}}$
eB_21	$\left(ar{\ell}_2\sigma^{\mu u}e_1 ight)arphi B_{\mu u}$	$^{\mathrm{C}}$
eB_22	$(ar{\ell}_2 \sigma^{\mu u} e_2) \varphi B_{\mu u}$	$^{\mathrm{C}}$
eB_23	$\left(ar{\ell}_2\sigma^{\mu u}e_3 ight)arphi B_{\mu u}$	C
eB_31	$\left(ar{\ell}_3\sigma^{\mu u}e_1 ight)arphi B_{\mu u}$	C
eB_32	$\left(\ell_3\sigma^{\mu u}e_2 ight)arphi B_{\mu u}$	$^{\mathrm{C}}$
eB_33	$\left(ar{\ell}_3\sigma^{\mu u}e_3 ight)arphi B_{\mu u}$	$^{\mathrm{C}}$
uG_11	$(\bar{q}_1\sigma^{\mu u}T^Au_1)\widetilde{arphi}G^A_{\mu u}$	$^{\mathrm{C}}$
uG_12	$(\bar{q}_1\sigma^{\mu\nu}T^Au_2)\widetilde{\varphi}G^A_{\mu\nu}$	$^{\mathrm{C}}$
uG_13	$(\bar{q}_1\sigma^{\mu\nu}T^Au_3)\widetilde{\widetilde{\varphi}}G^A_{\mu\nu}$	$^{\mathrm{C}}$
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WC name	Operator	Type
uG_21	$\left(\bar{q}_2\sigma^{\mu\nu}T^Au_1\right)\widetilde{\varphi}G^A_{\mu\nu}$	С
uG_22	$\left\langle ar{q}_2 \sigma^{\mu u} T^A u_2 \right angle \widetilde{arphi} G^{\widetilde{A}}_{\mu u}$	\mathbf{C}
uG_23	$\left(ar{q}_2 \sigma^{\mu u} T^A u_3 \right) \widetilde{arphi} G^A_{\mu u}$	\mathbf{C}
uG_31	$(\bar{q}_3\sigma^{\mu\nu}T^Au_1)\widetilde{\varphi}G^A_{\mu\nu}$	C
uG_32	$(\bar{q}_3\sigma^{\mu\nu}T^Au_2)\widetilde{\varphi}G^{\widetilde{A}}_{\mu u}$	\mathbf{C}
uG_33	$\left\langle ar{q}_{3}\sigma^{\mu u}T^{A}u_{3} ight angle \widetilde{arphi}G_{\mu u}^{\widetilde{A}}$	$^{\mathrm{C}}$
uW_11	$(ar{q}_1\sigma^{\mu u}u_1) au^I\widetilde{arphi}W^I_{\mu u}$	C
uW_12	$(ar{q}_1\sigma^{\mu u}u_2) au^I\widetilde{arphi}W^I_{\mu u}$	$^{\mathrm{C}}$
uW_13	$(ar{q}_1\sigma^{\mu u}u_3) au^I\widetilde{arphi}W^I_{\mu u}$	$^{\mathrm{C}}$
uW_21	$(ar{q}_2\sigma^{\mu u}u_1) au^I\widetilde{arphi}W^I_{\mu u}$	$^{\mathrm{C}}$
uW_22	$(ar{q}_2\sigma^{\mu u}u_2) au^I\widetilde{arphi}W^I_{\mu u}$	$^{\mathrm{C}}$
uW_23	$(ar{q}_2\sigma^{\mu u}u_3) au^I_{\ ec{arphi}}W^I_{\mu u}$	\mathbf{C}
uW_31	$(ar{q}_3\sigma^{\mu u}u_1) au^I_{\ ec{arphi}}W^I_{\mu u}$	\mathbf{C}
uW_32	$(ar{q}_3\sigma^{\mu u}u_2) au^I_{\ ec{arphi}}W^I_{\mu u}$	$^{\mathrm{C}}$
uW_33	$(ar{q}_3\sigma^{\mu u}u_3) au^I\widetilde{arphi}W^I_{\mu u}$	\mathbf{C}
uB_11	$(ar{q}_1\sigma^{\mu u}u_1)\widetilde{arphi}B_{\mu u}$	$^{\mathrm{C}}$
uB_12	$(\bar{q}_1 \sigma^{\mu \nu} u_2) \widetilde{\varphi} B_{\mu \nu}$	C
uB_13	$(\bar{q}_1\sigma^{\mu\nu}u_3)\widetilde{\varphi}B_{\mu\nu}$	C
uB_21	$(\bar{q}_2\sigma^{\mu\nu}u_1)\widetilde{\varphi}B_{\mu\nu}$	$\stackrel{ ext{C}}{\sim}$
uB_22	$(\bar{q}_2\sigma^{\mu\nu}u_2)\widetilde{\varphi}B_{\mu\nu}$	$\stackrel{ ext{C}}{\sim}$
uB_23	$(\bar{q}_2\sigma^{\mu u}u_3)\widetilde{arphi}B_{\mu u}$	C
uB_31	$(\bar{q}_3\sigma^{\mu\nu}u_1)\widetilde{\varphi}B_{\mu\nu}$	C
uB_32	$(\bar{q}_3\sigma^{\mu\nu}u_2)\widetilde{\varphi}B_{\mu\nu}$	C
uB_33	$(\bar{q}_3\sigma^{\mu\nu}u_3)\widetilde{\varphi}B_{\mu\nu}$	C
dG_11	$\left(\bar{q}_1\sigma^{\mu\nu}T^Ad_1\right)\varphi G^A_{\mu\nu}$	C
dG_12	$\left(\bar{q}_1\sigma^{\mu\nu}T^Ad_2\right)\varphi G^A_{\mu\nu}$	C
dG_13	$(\bar{q}_1\sigma^{\mu\nu}T^Ad_3)\varphi G^A_{\mu\nu}$	C
dG_21	$\left(\bar{q}_2\sigma^{\mu\nu}T^Ad_1\right)\varphi G^A_{\mu\nu}$	C
dG_22	$\left(\bar{q}_2\sigma^{\mu\nu}T^Ad_2\right)\varphi G^A_{\mu\nu}$	C
dG_23	$\left(\bar{q}_2\sigma^{\mu\nu}T^Ad_3\right)\varphi G^A_{\mu\nu}$	C
dG_31	$(\bar{q}_3\sigma^{\mu\nu}T^Ad_1)\varphi G^A_{\mu\nu}$	C
dG_32	$\left(\bar{q}_{3}\sigma^{\mu\nu}T^{A}d_{2}\right)\varphi G_{\mu\nu}^{A}$	C
dG_33	$\left(\bar{q}_{3}\sigma^{\mu\nu}T^{A}d_{3}\right)\varphi G_{\mu\nu}^{A}$	C
dW_11	$(\bar{q}_1\sigma^{\mu\nu}d_1)\tau^I\varphi W^I_{\mu\nu}$	C C
dW_12	$(\bar{q}_1\sigma^{\mu\nu}d_2)\tau^I\varphi W^I_{\mu\nu}$	
dW_13	$(\bar{q}_1\sigma^{\mu\nu}d_3)\tau^I\varphi W^I_{\mu\nu}$	C
dW_21	$(\bar{q}_2\sigma^{\mu\nu}d_1)\tau^I\varphi\dot{W}^I_{\mu\nu}$	C C
dW_22	$(\bar{q}_2\sigma^{\mu\nu}d_2)\tau^I\varphi W^I_{\mu\nu}$	
dW_23	$(\bar{q}_2\sigma^{\mu\nu}d_3)\tau^I\varphi\dot{W}^I_{\mu\nu}$	C
dW_31	$(\bar{q}_3\sigma^{\mu\nu}d_1)\tau^I\varphi\dot{W}^I_{\mu\nu}$	C
dW_32	$(\bar{q}_3\sigma^{\mu\nu}d_2)\tau^I\varphi\dot{W}^I_{\mu\nu}$	C
dW_33	$(\bar{q}_3\sigma^{\mu\nu}d_3)\tau^I\varphi\dot{W}^I_{\mu\nu}$	C
dB_11	$(ar{q}_1\sigma^{\mu u}d_1)arphi B_{\mu u}$	$^{\mathrm{C}}$

C name	Operator	Type
3_12	$(ar{q}_1\sigma^{\mu u}d_2)arphi B_{\mu u}$	\mathbf{C}
3_13	$(\bar{q}_1 \sigma^{\mu\nu} d_3) \varphi B_{\mu\nu}$	C
3_21	$(\bar{q}_2\sigma^{\mu\nu}d_1)\varphi B_{\mu\nu}$	C
3_22 3_23	$egin{aligned} (ar q_2 \sigma^{\mu u} d_2) arphi B_{\mu u} \ (ar q_2 \sigma^{\mu u} d_3) arphi B_{\mu u} \end{aligned}$	C C
5_23 3_31	$(q_2\sigma^{\prime} a_3) \varphi B_{\mu\nu} \ (\bar{q}_3\sigma^{\mu\nu}d_1) \varphi B_{\mu\nu}$	C
3_32	$(q_3\sigma^{\mu\nu})\varphi B_{\mu\nu} \ (\bar{q}_3\sigma^{\mu\nu}d_2)\varphi B_{\mu\nu}$	C
3_33	$(\bar{q}_3\sigma^{\mu u}d_3)arphi B_{\mu u}$	$\overset{\circ}{\mathrm{C}}$
il1_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_1 \gamma^\mu \ell_1 ight)$	${ m R}$
nil1_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_1 \gamma^\mu \ell_2 ight)$	\mathbf{C}
nil1_13	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_1 \gamma^\mu \ell_3 ight)$	\mathbf{C}
nil1_22	$\left\langle arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight angle \left(ar{\ell}_2 \gamma^\mu \ell_2 ight)$	R
nil1_23	$\left\langle arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight angle \left(ar{\ell}_2 \gamma^\mu \ell_3 ight)$	\mathbf{C}
nil1_33	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_3 \gamma^\mu \ell_3 ight)$	R
ni13_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{\ell}_1 au^I \gamma^\mu \ell_1 ight)$	R
ni13_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}
ni13_13	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{\ell}_1 au^I \gamma^\mu \ell_3 ight)$	\mathbf{C}
ni13_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
ni13_23	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{\ell}_2 au^I \gamma^\mu \ell_3 ight)$	\mathbf{C}
ni13_33	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{\ell}_3 au^I \gamma^\mu \ell_3 ight)$	R
nie_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_1 \gamma^\mu e_1)$	R
nie_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_1 \gamma^\mu e_2)$	\mathbf{C}
nie_13	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_1 \gamma^\mu e_3)$	\mathbf{C}
nie_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_2 \gamma^\mu e_2)$	${ m R}$
nie_23	$ \begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \end{pmatrix}(\bar{e}_{1}\gamma^{\mu}e_{2}) $ $ \begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \end{pmatrix}(\bar{e}_{2}\gamma^{\mu}e_{2}) $ $ \begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \end{pmatrix}(\bar{e}_{2}\gamma^{\mu}e_{3}) $ $ \begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \\ \end{pmatrix}(\bar{e}_{3}\gamma^{\mu}e_{3}) $	\mathbf{C}
nie_33	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_3 \gamma^\mu e_3)$	R

VC name	Operator	Type
hiq1_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{q}_1 \gamma^\mu q_1)$	R
hiq1_12	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{q}_{1}\gamma^{\mu}q_{2})$	\mathbf{C}
hiq1_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{1}\gamma^{\mu}q_{3} ight)$	\mathbf{C}
hiq1_22	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{2}\gamma^{\mu}q_{2} ight)$	R
hiq1_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{2}\gamma^{\mu}q_{3} ight)$	$^{\mathrm{C}}$
hiq1_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{3}\gamma^{\mu}q_{3} ight)$	R
hiq3_11	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{q}_{1} au^{I}\gamma^{\mu}q_{1} ight)$	R
hiq3_12	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{q}_{1} au^{I}\gamma^{\mu}q_{2} ight)$	$^{\mathrm{C}}$
hiq3_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{q}_{1} au^{I}\gamma^{\mu}q_{3} ight)$	\mathbf{C}
hiq3_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{q}_2 au^I \gamma^\mu q_2 ight)$	R
hiq3_23	$\left(arphi^\dagger i \overset{\leftrightarrow}{D} I m u arphi ight) \left(ar{q}_2 au^I \gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
hiq3_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}Imuarphi ight)\left(ar{q}_{3} au^{I}\gamma^{\mu}q_{3} ight)$	R
hiu_11	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{1}\gamma^{\mu}u_{1})$	R
hiu_12	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{1}\gamma^{\mu}u_{2})$	$^{\mathrm{C}}$
hiu_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{1}\gamma^{\mu}u_{3})$	$^{\mathrm{C}}$
hiu_22	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{2}\gamma^{\mu}u_{2})$	R
ohiu_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{2}\gamma^{\mu}u_{3})$	\mathbf{C}
ohiu_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{3}\gamma^{\mu}u_{3})$	R
hid_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_1 \gamma^\mu d_1 ight)$	R
hid_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_1 \gamma^\mu d_2 ight)$	\mathbf{C}
hid_13	$\begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \end{pmatrix} (\bar{u}_{3}\gamma^{\mu}u_{3})$ $\begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \end{pmatrix} (\bar{d}_{1}\gamma^{\mu}d_{1})$ $\begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \end{pmatrix} (\bar{d}_{1}\gamma^{\mu}d_{2})$ $\begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \end{pmatrix} (\bar{d}_{1}\gamma^{\mu}d_{3})$ $\begin{pmatrix} \varphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}\varphi \end{pmatrix} (\bar{d}_{2}\gamma^{\mu}d_{2})$	\mathbf{C}
hid_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_2 \gamma^\mu d_2 ight)$	R

WC name	Operator	Type
phid_23	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_2 \gamma^\mu d_3 ight)$	C
phid_33	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_3 \gamma^\mu d_3 ight)$	${ m R}$
phiud_11	$\left(\widetilde{\varphi}^{\dagger}iD_{\mu}\varphi\right)'(\bar{u}_{1}\gamma^{\mu}d_{1})$	\mathbf{C}
phiud_12	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{1}\gamma^{\mu}d_{2} ight)$	$^{\mathrm{C}}$
phiud_13	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{1}\gamma^{\mu}d_{3} ight)$	$^{\mathrm{C}}$
phiud_21	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{2}\gamma^{\mu}d_{1} ight)$	$^{\mathrm{C}}$
phiud_22	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{2}\gamma^{\mu}d_{2} ight)$	$^{\mathrm{C}}$
phiud_23	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{2}\gamma^{\mu}d_{3} ight)$	$^{\mathrm{C}}$
phiud_31	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{3}\gamma^{\mu}d_{1} ight)$	$^{\mathrm{C}}$
phiud_32	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{3}\gamma^{\mu}d_{2} ight)$	$^{\mathrm{C}}$
phiud_33	$\left(ec{arphi}^{\dagger}iD_{\mu}arphi ight) \left(ar{u}_{3}\gamma^{\mu}d_{3} ight)$	$^{\mathrm{C}}$
11_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_1\gamma^\mu\ell_1 ight)$	R
11_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_1\gamma^\mu\ell_2 ight)$	\mathbf{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	$\left(\ell_{1}\gamma_{\mu}\ell_{1} ight)\left(\ell_{2}\gamma^{\mu}\ell_{3} ight)$	$^{\mathrm{C}}$
11_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	R
11_1212	$\left(\ell_1\gamma_\mu\ell_2 ight)\left(\ell_1\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_1\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1221	$\left(\ell_1\gamma_\mu\ell_2 ight)\left(\ell_2\gamma^\mu\ell_1 ight)$	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	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	R
11_2323	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{\ell}_2\gamma^\mu\ell_3)$	C
11_2332	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{\ell}_3\gamma^\mu\ell_2)$	R
11_2333	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	C
11_3333	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{\ell}_3\gamma^\mu\ell_3)$	R
qq1_1111	$(ar{q}_1\gamma_\mu q_1)(ar{q}_1\gamma^\mu q_1)$	R
qq1_1112	$\left(\bar{q}_1\gamma_{\mu}q_1\right)\left(\bar{q}_1\gamma^{\mu}q_2\right)$	$^{\mathrm{C}}$
qq1_1113	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{q}_1\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$

WC name	Operator	Тур
qq1_1122	$\left(\bar{q}_1\gamma_{\mu}q_1\right)\left(\bar{q}_2\gamma^{\mu}q_2\right)$	R
qq1_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	R
qq1_1212	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_1\gamma^{\mu}q_2 ight)$	$^{\mathrm{C}}$
qq1_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_1\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_1221	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_1 ight)$	R
qq1_1222	$\left(ar{q}_{1}\gamma_{\mu}q_{2} ight)\left(ar{q}_{2}\gamma^{\mu}q_{2} ight)$	\mathbf{C}
qq1_1223	$\left(ar{q}_{1}\gamma_{\mu}q_{2} ight)\left(ar{q}_{2}\gamma^{\mu}q_{3} ight)$	\mathbf{C}
qq1_1231	$\left(ar{q}_{1}\gamma_{\mu}q_{2} ight)\left(ar{q}_{3}\gamma^{\mu}q_{1} ight)$	\mathbf{C}
qq1_1232	$(ar{q}_1\gamma_\mu q_2)(ar{q}_3\gamma^\mu q_2)$	\mathbf{C}
qq1_1233	$(\bar{q}_1\gamma_{\mu}q_2)(\bar{q}_3\gamma^{\mu}q_3)$	$^{\mathrm{C}}$
qq1_1313	$(\bar{q}_1\gamma_\mu q_3)(\bar{q}_1\gamma^\mu q_3)$	$^{\mathrm{C}}$
qq1_1322	$(ar{q}_1\gamma_\mu q_3)(ar{q}_2\gamma^\mu q_2)$	$^{\mathrm{C}}$
qq1_1323	$(ar{q}_1\gamma_\mu q_3)(ar{q}_2\gamma^\mu q_3)$	$^{\mathrm{C}}$
qq1_1331	$(\bar{q}_1\gamma_\mu q_3)(\bar{q}_3\gamma^\mu q_1)$	R
qq1_1332	$(ar{q}_1\gamma_\mu q_3)(ar{q}_3\gamma^\mu q_2)$	$^{\mathrm{C}}$
qq1_1333	$(ar{q}_1\gamma_\mu q_3)(ar{q}_3\gamma^\mu q_3)$	$\dot{\mathrm{C}}$
qq1_2222	$(ar{q}_2\gamma_\mu q_2)(ar{q}_2\gamma^\mu q_2)$	R
qq1_2223	$egin{array}{c} (ar{q}_2\gamma_\mu q_2) \ (ar{q}_2\gamma^\mu q_3) \end{array}$	C
qq1_2233	$(ar{q}_2\gamma_\mu q_2) (ar{q}_3\gamma^\mu q_3) \ (ar{q}_3\gamma^\mu q_3)$	R
qq1_2323	$(ar{q}_2\gamma_\mu q_3) (ar{q}_3\gamma^\mu q_3) \ (ar{q}_2\gamma^\mu q_3)$	C
qq1_2332	$(ar{q}_2\gamma_\mu q_3) (ar{q}_3\gamma^\mu q_2) \ $	R
qq1_2333	$(ar{q}_2\gamma_\mu q_3) (ar{q}_3\gamma^\mu q_3) \ (ar{q}_3\gamma^\mu q_3)$	C
qq1_3333	$(ar{q}_3\gamma_\mu q_3)(ar{q}_3\gamma^\mu q_3)$	R
qq3_1111	$\left(ar{q}_1\gamma_{\mu}\tau^Iq_1 ight)\left(ar{q}_1\gamma^{\mu} au^Iq_1 ight)$	R
qq3_1112	$egin{pmatrix} (q_1)'\mu' & q_1' & q_1' \\ (ar q_1\gamma_\mu au^Iq_1) & (ar q_1\gamma^\mu au^Iq_2) \end{pmatrix}$	C
qq3_1113	$egin{pmatrix} (q_1)'\mu' & q_1' & q_2' \ (ar q_1\gamma_\mu au^Iq_1) & (ar q_1\gamma^\mu au^Iq_3) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
qq3_1122	$egin{pmatrix} (q_1)'\mu' & q_1\rangle & (q_1)'\mu' & q_3\rangle \ (ar q_1\gamma_\mu au^Iq_1) & (ar q_2\gamma^\mu au^Iq_2) \end{pmatrix}$	$\stackrel{\circ}{ m R}$
qq3_1123	$egin{pmatrix} (q_1)''' & q_1' & q_2' & q_2' \ (ar q_1 \gamma_\mu au^I q_1) & (ar q_2 \gamma^\mu au^I q_3) \end{pmatrix}$	C
qq3_1133	$egin{pmatrix} (q_1)''' & q_1 \end{pmatrix} (q_2)'' & q_3 \end{pmatrix} \ ig(ar{q}_1\gamma_\mu au^Iq_1ig) & ig(ar{q}_3\gamma^\mu au^Iq_3ig) \end{pmatrix}$	$\stackrel{\circlearrowright}{ m R}$
qq3_1212	$egin{pmatrix} (q_1)_\mu & q_1 \end{pmatrix} (q_3)_\mu & q_3 \end{pmatrix} \ \left(ar{q}_1\gamma_\mu au^Iq_2 ight) \left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	C
qq3_1213	$egin{pmatrix} (q_1 & \gamma_\mu & q_2) & (q_1 & \gamma^{-1} & q_2) \ ig(ar{q}_1 \gamma_\mu au^I q_2) & ig(ar{q}_1 \gamma^\mu au^I q_3) \end{pmatrix}$	$^{\mathrm{C}}_{\mathrm{C}}$
qq3_1221	$(q_1\gamma_\mu r_1q_2)(q_1\gamma_1 r_1q_3) \ (ar q_1\gamma_\mu au^Iq_2)(ar q_2\gamma^\mu au^Iq_1)$	R
		$^{ m R}$
qq3_1222		C
qq3_1223	$egin{pmatrix} (ar{q}_1\gamma_\mu au^Iq_2) & (ar{q}_2\gamma^\mu au^Iq_3) \ (ar{z}_2\gamma_\mu - I_2\gamma) & (ar{z}_2\gamma_\mu - I_2\gamma) \end{pmatrix}$	
qq3_1231	$(ar{q}_1\gamma_\mu au^Iq_2)(ar{q}_3\gamma^\mu au^Iq_1)$	C
qq3_1232	$\left\langle ar{q}_1 \gamma_\mu au^I q_2 \right\rangle \left\langle ar{q}_3 \gamma^\mu au^I q_2 \right\rangle$	C
qq3_1233	$\left\langle \bar{q}_1 \dot{\gamma}_\mu \tau^I q_2 \right\rangle \left\langle \bar{q}_3 \gamma^\mu \tau^I q_3 \right\rangle$	C
qq3_1313	$\langle \bar{q}_1 \gamma_\mu \tau^I q_3 \rangle \langle \bar{q}_1 \gamma^\mu \tau^I q_3 \rangle$	C
qq3_1322	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	C
qq3_1323	$\left(ar{q}_1 \gamma_\mu au^I_{q} q_3 \right) \left(ar{q}_2 \gamma^\mu au^I_{q} q_3 \right)$	С
qq3_1331	$\left(\bar{q}_1 \gamma_\mu \tau^I_{q_3} \right) \left(\bar{q}_3 \gamma^\mu \tau^I_{q_1} \right)$	R
qq3_1332	$\left(ar{q}_1\gamma_\mu au^I_{q}q_3 ight)\left(ar{q}_3\gamma^\mu au^I_{q}q_2 ight)$	C
qq3_1333	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	C

WC name	Operator	Type
		Туре
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	$\left(ar{q}_2\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	С
qq3_2233	$\left(ar{q}_2 \gamma_\mu au^I q_2 \right) \left(ar{q}_3 \gamma^\mu au^I q_3 \right)$	R
qq3_2323	$\left(ar{q}_2 \gamma_\mu au^I_{} q_3 \right) \left(ar{q}_2 \gamma^\mu au^I_{} q_3 \right)$	С
qq3_2332	$\left(ar{q}_2 \gamma_\mu au^I_{} q_3 \right) \left(ar{q}_3 \gamma^\mu au^I_{} q_2 \right)$	R
qq3_2333	$\left(ar{q}_2\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	С
qq3_3333	$\left(ar{q}_3\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
lq1_1111	$\left(\ell_1\gamma_\mu\ell_1 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	R
lq1_1112	$\left(\ell_{1}\gamma_{\mu}\ell_{1} ight)\left(ar{q}_{1}\gamma^{\mu}q_{2} ight)$	С
lq1_1113	$\left(\ell_{1}\gamma_{\mu}\ell_{1} ight)\left(ar{q}_{1}\gamma^{\mu}q_{3} ight)$	С
lq1_1122	$\left(ar{\ell}_1 \gamma_\mu \ell_1 ight) \left(ar{q}_2 \gamma^\mu q_2 ight)$	\mathbf{R}
lq1_1123	$\left(ar{\ell}_1 \gamma_\mu \ell_1 \right) \left(ar{q}_2 \gamma^\mu q_3 \right)$	\mathbf{C}
lq1_1133	$\left(ar{\ell}_1 \gamma_\mu \ell_1 \right) \left(ar{q}_3 \gamma^\mu q_3 \right)$	R
lq1_1211	$\left(\ell_1 \gamma_\mu \ell_2 ight) \left(ar{q}_1 \gamma^\mu q_1 ight)$	$^{\mathrm{C}}$
lq1_1212	$\left(\ell_1\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$^{\mathrm{C}}$
lq1_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	\mathbf{C}
lq1_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_1 ight)$	С
lq1_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	С
lq1_1223	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	\mathbf{C}
lq1_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_3\gamma^\mu q_1 ight)$	\mathbf{C}
lq1_1232	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_3\gamma^\mu q_2 ight)$	\mathbf{C}
lq1_1233	$(ar{\ell}_1\gamma_\mu\ell_2)(ar{q}_3\gamma^\mu q_3)$	\mathbf{C}
lq1_1311	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	\mathbf{C}
lq1_1312	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	\mathbf{C}
lq1_1313	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	\mathbf{C}
lq1_1321	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_1 ight)$	\mathbf{C}
lq1_1322	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	\mathbf{C}
lq1_1323	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	\mathbf{C}
lq1_1331	$(ar{\ell}_1\gamma_\mu\ell_3)(ar{q}_3\gamma^\mu q_1)$	\mathbf{C}
lq1_1332	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_2 ight)$	\mathbf{C}
lq1_1333	$(ar{\ell}_1\gamma_\mu\ell_3)(ar{q}_3\gamma^\mu q_3)$	\mathbf{C}
lq1_2211	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	\mathbf{R}
lq1_2212	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{q}_1\gamma^\mu q_2)$	\mathbf{C}
lq1_2213	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{q}_1\gamma^\mu q_3)$	\mathbf{C}
lq1_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	${ m R}$
lq1_2223	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{q}_2\gamma^\mu q_3)$	\mathbf{C}
lq1_2233	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{q}_3\gamma^\mu q_3)$	${ m R}$
lq1_2311	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{q}_1\gamma^\mu q_1)$	\mathbf{C}
lq1_2312	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{q}_1\gamma^\mu q_2)$	\mathbf{C}
lq1_2313	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{q}_1\gamma^\mu q_3) \ $	$^{\mathrm{C}}$
lq1_2321	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{q}_2\gamma^\mu q_1)$	$^{\mathrm{C}}$
1q1_2322	$(ar\ell_2\gamma_\mu\ell_3) (ar\ell_2\gamma^\mu\ell_2) \ (ar\ell_2\gamma^\mu\ell_3) (ar q_2\gamma^\mu\ell_2)$	C
1	(2 1 \mu 3) (12 1 12)	~

WC name	Operator	Type
1q1_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	C
lq1_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_1 ight)$	$^{\mathrm{C}}$
lq1_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_2 ight)$	C
lq1_2333	$\left(ar{\ell}_2\gamma_{\mu}\ell_3 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	С
lq1_3311	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	R
lq1_3312	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$^{\mathrm{C}}$
lq1_3313	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
lq1_3322	$\left(ar{\ell}_3\gamma_{\mu}\ell_3 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	R
lq1_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
lq1_3333	$\left(ar{\ell}_3\gamma_{\mu}\ell_3 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	R
lq3_1111	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	R
lq3_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	$\left(ar{\ell}_1\gamma_{\mu} au^I\ell_1 ight)\left(ar{q}_2\gamma^{\mu} au^Iq_3 ight)$	С
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	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	\mathbf{C}
1q3_1222	$\left(ar{\ell}_1\gamma_{\mu} au^I\ell_2 ight)\left(ar{q}_2\gamma^{\mu} au^Iq_2 ight)$	\mathbf{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	$\left(ar{\ell}_1\gamma_{\mu} au^I\ell_2 ight)\left(ar{q}_3\gamma^{\mu} au^Iq_2 ight)$	\mathbf{C}
lq3_1233	$\left(ar{\ell}_1\gamma_{\mu} au^I\ell_2 ight)\left(ar{q}_3\gamma^{\mu} au^Iq_3 ight)$	\mathbf{C}
lq3_1311	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	\mathbf{C}
lq3_1312	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	\mathbf{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	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	\mathbf{C}
lq3_1323	$\left(ar{\ell}_1\gamma_{\mu} au^I\ell_3 ight)\left(ar{q}_2\gamma^{\mu} au^Iq_3 ight)$	\mathbf{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}
1q3_1332	$\left(ar{\ell}_1\gamma_{\mu} au^I\ell_3 ight)\left(ar{q}_3\gamma^{\mu} au^Iq_2 ight)$	С
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	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
1q3_2213	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^I_{}q_3 ight)$	\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	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	\mathbf{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	$\begin{array}{c} (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{2}) \ (\bar{q}_{1}\gamma^{\mu}\tau^{I}q_{2}) \\ (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{2}) \ (\bar{q}_{2}\gamma^{\mu}\tau^{I}q_{2}) \\ (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{2}) \ (\bar{q}_{2}\gamma^{\mu}\tau^{I}q_{3}) \\ (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{2}) \ (\bar{q}_{3}\gamma^{\mu}\tau^{I}q_{3}) \\ (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{1}\gamma^{\mu}\tau^{I}q_{1}) \\ (\bar{\ell}_{2}\gamma_{\mu}\tau^{I}\ell_{3}) \ (\bar{q}_{1}\gamma^{\mu}\tau^{I}q_{2}) \end{array}$	\mathbf{C}
lq3_2312	$\left(\ell_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
1q3_2313	$(\bar{\ell}_2\gamma_\mu au^I\ell_3)(\bar{q}_1\gamma^\mu au^Iq_3)$	C
1q3_2321	$(ar{\ell}_2\gamma_\mu au^I\ell_3)(ar{q}_2\gamma^\mu au^Iq_1)$	$^{\mathrm{C}}$
1q3_2322	$(ar{\ell}_2\gamma_\mu au^I\ell_3)(ar{q}_2\gamma^\mu au^Iq_2)$	$^{\mathrm{C}}$
1q3_2323	$(ar{\ell}_2\gamma_\mu au^I\ell_3)(ar{q}_2\gamma^\mu au^Iq_3)$	$^{\mathrm{C}}$
1q3_2331	$(ar{\ell}_2\gamma_\mu au^I\ell_3)(ar{q}_3\gamma^\mu au^Iq_1)$	$^{\mathrm{C}}$
1q3_2332	$(ar{\ell}_2\gamma_\mu au^I\ell_3)(ar{q}_3\gamma^\mu au^Iq_2)$	$^{\mathrm{C}}$
1q3_2333	$(ar{\ell}_2\gamma_\mu au^I\ell_3)(ar{q}_3\gamma^\mu au^Iq_3)$	$^{\mathrm{C}}$
1q3_3311	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_1\gamma^\mu au^Iq_1)$	${ m R}$
1q3_3312	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_1\gamma^\mu au^Iq_2)$	$^{\mathrm{C}}$
1q3_3313	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_1\gamma^\mu au^Iq_3)$	$^{\mathrm{C}}$
1q3_3322	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_2\gamma^\mu au^Iq_2)$	${ m R}$
1q3_3323	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_2\gamma^\mu au^Iq_3)$	$^{\mathrm{C}}$
1q3_3333	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_3\gamma^\mu au^Iq_3)$	${ m R}$
ee_1111	$(\bar{e}_1\gamma_\mu e_1)(\bar{e}_1\gamma^\mu e_1)$	R
ee_1112	$(ar{e}_1\gamma_\mu e_1)(ar{e}_1\gamma^\mu e_2)$	$^{\mathrm{C}}$
ee_1113	$(ar{e}_1\gamma_\mu e_1)(ar{e}_1\gamma^\mu e_3)$	$^{\mathrm{C}}$
ee_1122	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	${ m R}$
ee_1123	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
ee_1133	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
ee_1212	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	$^{\mathrm{C}}$
ee_1213	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	C
ee_1222	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	C
ee_1223	$(ar{e}_1\gamma_{\mu}e_2)(ar{e}_2\gamma^{\mu}e_3)$	C
ee_1232	$(\bar{e}_1\gamma_\mu e_2)(\bar{e}_3\gamma^\mu e_2)$	C
ee_1233	$(\bar{e}_1\gamma_\mu e_2)(\bar{e}_3\gamma^\mu e_3)$	С
ee_1313	$(\bar{e}_1\gamma_\mu e_3)(\bar{e}_1\gamma^\mu e_3)$	С
ee_1323	$(\bar{e}_1\gamma_\mu e_3)(\bar{e}_2\gamma^\mu e_3)$	С
ee_1333	$(\bar{e}_1\gamma_\mu e_3)(\bar{e}_3\gamma^\mu e_3)$	С
ee_2222	$(ar{e}_2\gamma_\mu e_2)(ar{e}_2\gamma^\mu e_2)$	R
ee_2223	$(ar{e}_2\gamma_\mu e_2)(ar{e}_2\gamma^\mu e_3)$	C R
ee_2233 ee_2323	$(ar{e}_2\gamma_\mu e_2)(ar{e}_3\gamma^\mu e_3) \ (ar{e}_3\gamma^\mu e_3) \ (ar{e}_3\gamma^\mu e_3) \ (ar{e}_3\gamma^\mu e_3)$	$\overset{\mathbf{R}}{\mathrm{C}}$
ee_2323 ee_2333	$egin{array}{l} (ar{e}_2 \gamma_{\mu} e_3) (ar{e}_2 \gamma^{\mu} e_3) \ (ar{e}_2 \gamma_{\mu} e_3) (ar{e}_3 \gamma^{\mu} e_3) \end{array}$	C
ee_3333	$(ar{e}_2\gamma_\mu e_3)(ar{e}_3\gamma^\mu e_3) \ (ar{e}_3\gamma_\mu e_3)(ar{e}_3\gamma^\mu e_3)$	R
uu_1111	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_1\gamma^\mu u_1)$	R
uu_1112	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_1\gamma^\mu u_1) (\bar{u}_1\gamma_\mu u_1)(\bar{u}_1\gamma^\mu u_2)$	C
uu_1113	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_1\gamma^\mu u_2) \ (\bar{u}_1\gamma_\mu u_1)(\bar{u}_1\gamma^\mu u_3)$	$\overset{\circ}{\mathrm{C}}$
uu_1122	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_1\gamma^\mu u_2)$	R
uu_1123	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_2\gamma^\mu u_3)$	C
uu_1133	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_2\gamma^\mu u_3)$	R
uu_1212	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_3\gamma^\mu u_3) (\bar{u}_1\gamma_\mu u_2)(\bar{u}_1\gamma^\mu u_2)$	C
uu_1213	$(\bar{u}_1\gamma_\mu u_2)(\bar{u}_1\gamma^\mu u_3) \ (\bar{u}_1\gamma^\mu u_3)$	Č
_ uu_1221	$(\bar{u}_1\gamma_{\mu}u_2)(\bar{u}_2\gamma^{\mu}u_1)$	R

WC name	Operator	Type
uu_1222	$(\bar{u}_1\gamma_\mu u_2)(\bar{u}_2\gamma^\mu u_2)$	С
uu_1223	$\left(\bar{u}_1\gamma_{\mu}u_2\right)\left(\bar{u}_2\gamma^{\mu}u_3\right)$	\mathbf{C}
uu_1231	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{u}_3\gamma^{\mu}u_1 ight)$	\mathbf{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	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	\mathbf{C}
uu_1323	$\left(\bar{u}_1\gamma_{\mu}u_3\right)\left(\bar{u}_2\gamma^{\mu}u_3\right)$	С
uu_1331	$\left(\bar{u}_1\gamma_{\mu}u_3\right)\left(\bar{u}_3\gamma^{\mu}u_1\right)$	R
uu_1332	$\left(\bar{u}_1\gamma_{\mu}u_3\right)\left(\bar{u}_3\gamma^{\mu}u_2\right)$	С
uu_1333	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{C}
uu_2222	$\left(ar{u}_2\gamma_{\mu}u_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	R
uu_2223	$\left(ar{u}_2\gamma_{\mu}u_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	С
uu_2233	$\left(ar{u}_2\gamma_{\mu}u_2 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	R
uu_2323	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	С
uu_2332	$\left(\bar{u}_2\gamma_{\mu}u_3\right)\left(\bar{u}_3\gamma^{\mu}u_2\right)$	R
uu_2333	$\left(\bar{u}_2\gamma_{\mu}u_3\right)\left(\bar{u}_3\gamma^{\mu}u_3\right)$	С
uu_3333	$\left(ar{u}_3\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	R
dd_1111	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
dd_1112	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
dd_1113	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
dd_1122	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	R
dd_1123	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
dd_1133	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R
dd_1212	$\left(ar{d}_1\gamma_{\mu}d_2 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
dd_1213	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
dd_1221	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_2\gamma^\mu d_1 ight)$	R
dd_1222	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
dd_1223	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
dd_1231	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_3\gamma^\mu d_1 ight)$	\mathbf{C}
_ dd_1232	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_3\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
dd_1233	$(ar{d}_1\gamma_\mu d_2)(ar{d}_3\gamma^\mu d_3)$	C
dd_1313	$(ar{d}_1\gamma_\mu d_3) \ (ar{d}_1\gamma^\mu d_3)$	C
dd_1322	$(ar{d}_1\gamma_\mu d_3) (ar{d}_2\gamma^\mu d_2)$	Č
dd_1323	$\left(ar{d}_1\gamma_\mu a_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight) \ \left(ar{d}_1\gamma_\mu d_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	$\overset{\circ}{\mathrm{C}}$
dd_1331	$\left(ar{d}_1\gamma_\mu a_3 ight)\left(ar{d}_2\gamma^\mu d_1 ight)$	R
dd_1332	$egin{pmatrix} (a_1^{\alpha_1}\eta_{\mu}a_3) & (a_3^{\alpha_3}\eta_{\mu}a_1) \ (ar{d}_1\gamma_{\mu}d_3) & (ar{d}_3\gamma^{\mu}d_2) \end{pmatrix}$	C
dd_1333	$egin{pmatrix} (a_1\ \gamma_\mu a_3)\ (a_3\ \gamma^\mu a_2)\ (ar{d}_1\gamma_\mu d_3)\ (ar{d}_3\gamma^\mu d_3) \end{pmatrix}$	C
dd_1333 dd_2222	$egin{array}{l} (a_1\gamma_\mu a_3) \ (a_3\gamma^\mu a_3) \ (ar{d}_2\gamma_\mu d_2) \ (ar{d}_2\gamma^\mu d_2) \end{array}$	R
		C
dd_2223	$egin{pmatrix} (ar{d}_2\gamma_\mu d_2) \ (ar{d}_2\gamma^\mu d_3) \ (ar{d}_1\gamma_\mu d_2) \ (ar{d}_2\gamma^\mu d_3) \end{pmatrix}$	
dd_2233	$(\bar{d}_2\gamma_\mu d_2) (\bar{d}_3\gamma^\mu d_3)$	R
dd_2323	$(\bar{d}_2\gamma_\mu d_3)(\bar{d}_2\gamma^\mu d_3)$	C
dd_2332	$\left(ar{d}_{2}\gamma_{\mu}d_{3} ight)\left(ar{d}_{3}\gamma^{\mu}d_{2} ight)$	R

WC name	Operator	Type
dd_2333	$\left(ar{d}_2\gamma_\mu d_3\right)\left(ar{d}_3\gamma^\mu d_3\right)$	C
dd_3333	$(ar{d}_3\gamma_\mu d_3) \ (ar{d}_3\gamma^\mu d_3)$	R
eu_1111	$(ar{e}_1\gamma_\mu e_1)(ar{u}_1\gamma^\mu u_1)$	R
eu_1112	$(ar{e}_1\gamma_\mu e_1)(ar{u}_1\gamma^\mu u_2)$	$^{\mathrm{C}}$
eu_1113	$(ar{e}_1\gamma_{\mu}e_1)(ar{u}_1\gamma^{\mu}u_3)$	$^{\mathrm{C}}$
eu_1122	$(ar{e}_1\gamma_{\mu}e_1)(ar{u}_2\gamma^{\mu}u_2)$	R
eu_1123	$(ar{e}_1\gamma_\mu e_1)(ar{u}_2\gamma^\mu u_3)$	\mathbf{C}
eu_1133	$(ar{e}_1\gamma_{\mu}e_1)(ar{u}_3\gamma^{\mu}u_3)$	R
eu_1211	$(ar{e}_1\gamma_{\mu}e_2)(ar{u}_1\gamma^{\mu}u_1)$	$^{\mathrm{C}}$
eu_1212	$(ar{e}_1\gamma_{\mu}e_2)(ar{u}_1\gamma^{\mu}u_2)$	$^{\mathrm{C}}$
eu_1213	$(ar{e}_1\gamma_\mu e_2)(ar{u}_1\gamma^\mu u_3)$	C
eu_1221	$(ar{e}_1\gamma_\mu e_2)(ar{u}_2\gamma^\mu u_1)$	\mathbf{C}
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	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	\mathbf{C}
eu_1321	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	\mathbf{C}
eu_1322	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	\mathbf{C}
eu_1323	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
eu_1331	$\left(\bar{e}_1\gamma_{\mu}e_3\right)\left(\bar{u}_3\gamma^{\mu}u_1\right)$	$^{\mathrm{C}}$
eu_1332	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
eu_1333	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
eu_2211	$\left(\bar{e}_2\gamma_{\mu}e_2\right)\left(\bar{u}_1\gamma^{\mu}u_1\right)$	R
eu_2212	$\left(\bar{e}_2\gamma_{\mu}e_2\right)\left(\bar{u}_1\gamma^{\mu}u_2\right)$	$^{\mathrm{C}}$
eu_2213	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
eu_2222	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	R
eu_2223	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
eu_2233	$\left(\bar{e}_2\gamma_{\mu}e_2\right)\left(\bar{u}_3\gamma^{\mu}u_3\right)$	${ m R}$
eu_2311	$\left(\bar{e}_2\gamma_{\mu}e_3\right)\left(\bar{u}_1\gamma^{\mu}u_1\right)$	$^{\mathrm{C}}$
eu_2312	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
eu_2313	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_1\gamma^\mu u_3)$	$^{\mathrm{C}}$
eu_2321	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	$^{\mathrm{C}}$
eu_2322	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	С
eu_2323	$(ar{e}_2\gamma_\mu e_3)(ar{u}_2\gamma^\mu u_3)$	C
eu_2331	$(ar{e}_2\gamma_\mu e_3)(ar{u}_3\gamma^\mu u_1)$	C
eu_2332	$(ar{e}_2\gamma_\mu e_3)(ar{u}_3\gamma^\mu u_2)$	C
eu_2333	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{C}
eu_3311	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	R
eu_3312	$(ar{e}_3\gamma_\mu e_3)(ar{u}_1\gamma^\mu u_2)$	C
eu_3313	$(\bar{e}_3\gamma_\mu e_3)(\bar{u}_1\gamma^\mu u_3)$	С

WC name	Operator	Type
eu_3322	$(\bar{e}_3\gamma_\mu e_3)(\bar{u}_2\gamma^\mu u_2)$	R
eu_3323	$(ar{e}_3\gamma_\mu e_3)(ar{u}_2\gamma^\mu u_3)$	\mathbf{C}
eu_3333	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	\mathbf{R}
ed_1111	$(ar{e}_1\gamma_{\mu}e_1)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{R}
ed_1112	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	С
ed_1113	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	С
ed_1122	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{R}
ed_1123	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	С
ed_1133	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{R}
ed_1211	$(ar{e}_1\gamma_{\mu}e_2)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	С
ed_1212	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	С
ed_1213	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	С
ed_1221	$(ar{e}_1\gamma_{\mu}e_2)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	\mathbf{C}
ed_1222	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_1223	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_1231	$(ar{e}_1\gamma_{\mu}e_2)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	\mathbf{C}
ed_1232	$(ar{e}_1\gamma_{\mu}e_2)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	С
ed_1233	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	С
ed_1311	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{C}
ed_1312	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_1313	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	С
ed_1321	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	С
ed_1322	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	С
ed_1323	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	С
ed_1331	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	\mathbf{C}
ed_1332	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	С
ed_1333	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	С
ed_2211	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{R}
ed_2212	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	С
ed_2213	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	С
ed_2222	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{R}
ed_2223	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
ed_2233	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R
ed_2311	$(ar{e}_2\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{C}
ed_2312	$(ar{e}_2\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_2313	$(ar{e}_2\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
ed_2321	$(ar{e}_2\gamma_\mu e_3)\left(ar{d}_2\gamma^\mu d_1 ight)$	\mathbf{C}
ed_2322	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
ed_2323	$(ar{e}_2\gamma_{\mu}e_3)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
ed_2331	$(ar{e}_2\gamma_\mu e_3)ig(ar{d}_3\gamma^\mu d_1ig)$	\mathbf{C}
ed_2332	$(ar{e}_2\gamma_{\mu}e_3)ig(ar{d}_3\gamma^{\mu}d_2ig)$	\mathbf{C}
ed_2333	$(ar{e}_2\gamma_{\mu}e_3)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{C}

WC name	Operator	Type
ed_3311	$(\bar{e}_3\gamma_\mu e_3)(\bar{d}_1\gamma^\mu d_1)$	R
ed_3312	$(ar{e}_3\gamma_\mu e_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
ed_3313	$(ar{e}_3\gamma_\mu e_3)ig(ar{d}_1\gamma^\mu d_3ig)$	\mathbf{C}
ed_3322	$(ar{e}_3\gamma_{\mu}e_3)ig(ar{d}_2\gamma^{\mu}d_2ig)$	\mathbf{R}
ed_3323	$(ar{e}_3\gamma_{\mu}e_3)ig(ar{d}_2\gamma^{\mu}d_3ig)$	\mathbf{C}
ed_3333	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{R}
ud1_1111	$(ar{u}_1\gamma_\mu u_1) \left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{R}
ud1_1112	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ud1_1113	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
ud1_1122	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{R}
ud1_1123	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
ud1_1133	$\left(ar{u}_1\gamma_{\mu}u_1 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{R}
ud1_1211	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	\mathbf{C}
ud1_1212	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ud1_1213	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
ud1_1221	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	\mathbf{C}
ud1_1222	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
ud1_1223	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
ud1_1231	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	\mathbf{C}
ud1_1232	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	\mathbf{C}
ud1_1233	$\left(ar{u}_1\gamma_{\mu}u_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{C}
ud1_1311	$(ar{u}_1\gamma_\mu u_3) \left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{C}
ud1_1312	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
ud1_1313	$(ar{u}_1\gamma_\mu u_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
ud1_1321	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	\mathbf{C}
ud1_1322	$(ar{u}_1\gamma_{\mu}u_3)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{C}
ud1_1323	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	\mathbf{C}
ud1_1331	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	\mathbf{C}
ud1_1332	$(ar{u}_1\gamma_{\mu}u_3)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	\mathbf{C}
ud1_1333	$(ar{u}_1\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_3ig)$	\mathbf{C}
ud1_2211	$(ar{u}_2\gamma_\mu u_2) \left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{R}
ud1_2212	$(ar{u}_2\gamma_\mu u_2)\left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
ud1_2213	$\left(ar{u}_2\gamma_{\mu}u_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	\mathbf{C}
ud1_2222	$\left(ar{u}_2\gamma_{\mu}u_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	\mathbf{R}
ud1_2223	$(ar{u}_2\gamma_\mu u_2)\left(ar{d}_2\gamma^\mu d_3 ight)$	\mathbf{C}
ud1_2233	$(ar{u}_2\gamma_\mu u_2)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
ud1_2311	$(ar{u}_2\gamma_\mu u_3)\left(ar{d}_1\gamma^\mu d_1 ight)$	С
ud1_2312	$(ar{u}_2\gamma_\mu u_3)\left(ar{d}_1\gamma^\mu d_2 ight)$	C
ud1_2313	$(ar{u}_2\gamma_\mu u_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	C
ud1_2321	$(ar{u}_2\gamma_\mu u_3)\left(ar{d}_2\gamma^\mu d_1 ight)$	С
ud1_2322	$(ar{u}_2\gamma_\mu u_3) \left(ar{d}_2\gamma^\mu d_2 ight)$	C
ud1_2323	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(d_2\gamma^{\mu}d_3 ight)$	С

$\begin{array}{c} {\rm ud1}_2331 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_1) & C \\ {\rm ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) & C \\ {\rm ud1}_2333 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & C \\ {\rm ud1}_2331 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_1) & R \\ {\rm ud1}_3312 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) & C \\ {\rm ud1}_3313 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) & C \\ {\rm ud1}_3313 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_1\gamma^\mu d_2) & C \\ {\rm ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) & R \\ {\rm ud1}_3323 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_2) & R \\ {\rm ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_2\gamma^\mu d_3) & C \\ {\rm ud1}_3333 & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) & R \\ {\rm ud8}_1111 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_1) & R \\ {\rm ud8}_1112 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) & C \\ {\rm ud8}_1113 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) & C \\ {\rm ud8}_1113 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1123 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1123 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1123 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_3\gamma^\mu T^A d_3) & R \\ {\rm ud8}_1211 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) & C \\ {\rm ud8}_1213 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) & C \\ {\rm ud8}_1213 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) & C \\ {\rm ud8}_1222 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1222 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1223 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1231 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1231 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1311 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1312 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1312 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1312 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1312 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1312 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1312 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1323 & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_3\gamma^\mu T^A d_3) & C \\ {\rm ud8}_1323 & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_3\gamma^\mu T^A d_3$	WC name	Operator	Type
$\begin{array}{c} \mathrm{ud1}_2332 & (\bar{u}_2\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_2) \\ \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}_1\gamma^\mu d_1) \\ \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_3) \\ \mathrm{ud1}_3313 & (\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_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_\mu u_3) (\bar{d}_3\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\gamma^\mu d_3) \\ \mathrm{ud1}_111 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_1) \\ \mathrm{ud8}_1112 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_1113 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_1122 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1123 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1123 & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1213 & (\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_2) \\ \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_2) \\ \mathrm{ud8}_1222 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1223 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1223 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1223 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1223 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\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}_1312 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1313 & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\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}_1312 & (\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}_1321 & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_1333 & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_2211 & (\bar{u}_2\gamma_\mu T^A u_3) (\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_2) \\ $	ud1_2331	$(ar{u}_2\gamma_\mu u_3)(ar{d}_3\gamma^\mu d_1)$	C
$\begin{array}{c} \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}_1\gamma^\mu d_1) \\ \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}_{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}_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{ud8}_{1111} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_1) \\ \mathrm{ud8}_{1112} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1113} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{1122} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1123} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{1123} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{1123} & (\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_2) \\ \mathrm{ud8}_{1212} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1212} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1221} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\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_3) \\ \mathrm{ud8}_{1221} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_2\gamma^\mu T^A d_3) \\ \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}_{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}_{1331} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{1332} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{1332} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{1332} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{1333} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{2331} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{2332} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_2\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{2331} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{2331} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{2331} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_3) \\ \mathrm{ud8}_{2331} &$			\mathbf{C}
$\begin{array}{c} {\rm ud1_3311} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_1\right) & {\rm R} \\ {\rm ud1_3312} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) & {\rm C} \\ {\rm ud1_3322} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_2\right) & {\rm R} \\ {\rm ud1_3323} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) & {\rm C} \\ {\rm ud1_3333} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) & {\rm R} \\ {\rm ud8_1111} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & {\rm R} \\ {\rm ud8_1112} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1113} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1113} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_2\right) & {\rm R} \\ {\rm ud8_1122} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1123} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1133} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & {\rm R} \\ {\rm ud8_1211} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1212} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1213} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1221} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1222} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & {\rm C} \\ {\rm ud8_1332} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & {\rm C} \\ {\rm ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & {\rm C} \\ {\rm ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & {\rm C} \\ {\rm ud8_1332} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_2211} & (\bar{u}_2\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_221$	ud1_2333		\mathbf{C}
$\begin{array}{c} {\rm ud1_3312} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_2\right) & {\rm C} \\ {\rm ud1_3313} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_3\right) & {\rm C} \\ {\rm ud1_3322} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_2\right) & {\rm R} \\ {\rm ud1_3323} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) & {\rm C} \\ {\rm ud1_3323} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) & {\rm R} \\ {\rm ud1_3323} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) & {\rm R} \\ {\rm ud1_3333} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_3\right) & {\rm R} \\ {\rm ud8_1111} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & {\rm R} \\ {\rm ud8_1112} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1113} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1122} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1123} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm R} \\ {\rm ud8_1212} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & {\rm R} \\ {\rm ud8_1211} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & {\rm C} \\ {\rm ud8_1213} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1213} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1221} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1222} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_3\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1232} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_3\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_3\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1311} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_3\gamma^\mu T^A d_2\right) & {\rm C} \\ {\rm ud8_1312} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1312} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1312} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1322} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_1331} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & {\rm C} \\ {\rm ud8_2211} & ($	ud1_3311		R
$\begin{array}{c} \mathrm{ud1_3313} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_3\right) & C \\ \mathrm{ud1_3322} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_2\right) & R \\ \mathrm{ud1_3333} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_2\gamma^\mu d_3\right) & C \\ \mathrm{ud1_3333} & (\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_3\gamma^\mu d_3\right) & R \\ \mathrm{ud8_1111} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & R \\ \mathrm{ud8_1112} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1113} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1122} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1123} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1133} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1133} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & R \\ \mathrm{ud8_1211} & (\bar{u}_1\gamma_\mu T^A u_1) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1212} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1213} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1213} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1223} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_2\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_3\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_3\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_\mu T^A u_2) \left(\bar{d}_3\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1311} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1312} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1313} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1323} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_3\right) & C \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_\mu T^A u_3) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_2213} & (\bar{u}_2\gamma_\mu T^A u_2) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & C \\ \mathrm{ud8_2213} & (\bar{u}_2\gamma_\mu $	ud1_3312		\mathbf{C}
$\begin{array}{c} \mathrm{ud1}_{3322} & (\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}_{3333} & (\bar{u}_3\gamma_\mu u_3) (\bar{d}_3\gamma^\mu d_3) \\ \mathrm{ud8}_{1111} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_1) \\ \mathrm{ud8}_{1111} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1112} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1113} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1122} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1122} & (\bar{u}_1\gamma_\mu T^A u_1) (\bar{d}_2\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1123} & (\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_2) \\ \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_2) \\ \mathrm{ud8}_{1221} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\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_3) \\ \mathrm{ud8}_{1223} & (\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_2) \\ \mathrm{ud8}_{1233} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1233} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1331} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1311} & (\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_3\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1312} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{1313} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_1\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}_{1321} & (\bar{u}_1\gamma_\mu T^A u_3) (\bar{d}_2\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}_{1323} & (\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_2) \\ \mathrm{ud8}_{1323} & (\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_2) \\ \mathrm{ud8}_{1323} & (\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_2) \\ \mathrm{ud8}_{2313} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{2223} & (\bar{u}_2\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2) \\ \mathrm{ud8}_{2223} & (\bar{u}_2$	ud1_3313		\mathbf{C}
$\begin{array}{c} \mathrm{ud1_3323} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_2\gamma^{\mu}d_3\right) \\ \mathrm{ud1_3333} & (\bar{u}_3\gamma_{\mu}u_3) \left(\bar{d}_3\gamma^{\mu}d_3\right) \\ \mathrm{ud8_1111} & (\bar{u}_1\gamma_{\mu}T^Au_1) \left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) \\ \mathrm{ud8_1112} & (\bar{u}_1\gamma_{\mu}T^Au_1) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1113} & (\bar{u}_1\gamma_{\mu}T^Au_1) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1113} & (\bar{u}_1\gamma_{\mu}T^Au_1) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1122} & (\bar{u}_1\gamma_{\mu}T^Au_1) \left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1123} & (\bar{u}_1\gamma_{\mu}T^Au_1) \left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_1123} & (\bar{u}_1\gamma_{\mu}T^Au_1) \left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_1213} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) \\ \mathrm{ud8_1212} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1213} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1213} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1221} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1223} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_2\gamma^{\mu}T^Ad_1\right) \\ \mathrm{ud8_1223} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_2\gamma^{\mu}T^Ad_1\right) \\ \mathrm{ud8_1232} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_3\gamma^{\mu}T^Ad_1\right) \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1233} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1311} & (\bar{u}_1\gamma_{\mu}T^Au_2) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1311} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1321} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1322} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1323} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1331} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1332} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_1333} & (\bar{u}_1\gamma_{\mu}T^Au_3) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \mathrm{ud8_2212} & (\bar{u}_2\gamma_{\mu}T^Au_3) \left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_2211} & (\bar{u}_2\gamma_{\mu}T^Au_3) \left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_2212} & (\bar{u}_2\gamma_{\mu}T^Au_3) \left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_2213} & (\bar{u}_2\gamma_{\mu}T^Au_2) \left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_2233} & (\bar{u}_2\gamma_{\mu}T^Au_2) \left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_2233} & (\bar{u}_2\gamma_{\mu}T^Au_2) \left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) \\ \mathrm{ud8_2312} & (\bar{u}_2$	ud1_3322		R
$\begin{array}{c} \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_2\right) & \text{C} \\ \text{ud8_1122} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_2\right) & \text{R} \\ \text{ud8_1123} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{C} \\ \text{ud8_1133} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{R} \\ \text{ud8_1211} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{R} \\ \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{C} \\ \text{ud8_1213} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & \text{C} \\ \text{ud8_1221} & \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_1222} & \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_1223} & \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_1223} & \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_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_1311} & \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_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_1312} & \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}_1\gamma^\mu T^A d_3\right) & \text{C} \\ \text{ud8_1323} & \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_1323} & \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_1323} & \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_1323} & \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_1323} & \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_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_2\right) & \text{C} \\ \text{ud8_2212} & \left(\bar{u}_2\gamma_\mu T^A$	ud1_3323		C
$\begin{array}{c} \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_2\right) & \text{C} \\ \text{ud8_1122} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_2\right) & \text{R} \\ \text{ud8_1123} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{C} \\ \text{ud8_1133} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{R} \\ \text{ud8_1211} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{R} \\ \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{C} \\ \text{ud8_1213} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & \text{C} \\ \text{ud8_1221} & \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_1222} & \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_1223} & \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_1223} & \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_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_1311} & \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_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_1312} & \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}_1\gamma^\mu T^A d_3\right) & \text{C} \\ \text{ud8_1323} & \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_1323} & \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_1323} & \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_1323} & \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_1323} & \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_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_2\right) & \text{C} \\ \text{ud8_2212} & \left(\bar{u}_2\gamma_\mu T^A$	ud1_3333	$(ar{u}_3\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_3ig)$	R
$\begin{array}{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} \\ \text{ud8_1122} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_2\right) & \text{R} \\ \text{ud8_1123} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{C} \\ \text{ud8_1133} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{R} \\ \text{ud8_1211} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & \text{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{C} \\ \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_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_3\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_3\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_3\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_3\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_3\right) & \text{C} \\ \text{ud8_1311} & \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_1312} & \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_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_3\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_1323} & \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_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_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_3\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}_1\gamma^\mu T^A d_3\right) & \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_\mu T^A$	ud8_1111	$\left(ar{u}_1\gamma_\mu T^A u_1 ight)\left(ar{d}_1\gamma^\mu T^A d_1 ight)$	R
$\begin{array}{c} \text{ud8_1122} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_2\right) \\ \text{ud8_1123} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) \\ \text{ud8_1133} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{ud8_1211} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_1\right) \\ \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_2\right) \\ \text{ud8_1221} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \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{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{ud8_1223} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) \\ \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{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{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{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{ud8_1311} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{ud8_1312} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \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{ud8_1322} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{ud8_1323} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_2\gamma^\mu T^A d_1\right) \\ \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{ud8_1333} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_2\gamma^\mu T^A d_2\right) \\ \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{ud8_1331} & \left(\bar{u}_1\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \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{ud8_2211} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{ud8_2211} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) \\ \text{ud8_2212} & \left(\bar{u}_2\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \text{ud8_2222} & \left(\bar{u}_2\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\ \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{ud8_2233} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) \\ \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{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{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{ud8_2312} & \left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_1\gamma^\mu T^A d_3\right) \\$	ud8_1112		C
$\begin{array}{c} \text{ud8_1123} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_2\gamma^\mu T^A d_3\right) & \text{C} \\ \text{ud8_1133} & \left(\bar{u}_1\gamma_\mu T^A u_1\right) \left(\bar{d}_3\gamma^\mu T^A d_3\right) & \text{R} \\ \text{ud8_1211} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_1\right) & \text{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{C} \\ \text{ud8_1213} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_2\right) & \text{C} \\ \text{ud8_1221} & \left(\bar{u}_1\gamma_\mu T^A u_2\right) \left(\bar{d}_1\gamma^\mu T^A d_2\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_1\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_1233} & \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_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_2\right) & \text{C} \\ \text{ud8_1331} & \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_1311} & \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_1312} & \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_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_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_2\right) & \text{C} \\ \text{ud8_1333} & \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}_2\gamma^\mu T^A d_2\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_2211} & \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_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_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_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_2231} & \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_2232} & \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_2312} & \left(\bar{u}_2\gamma_\mu T^A$	ud8_1113	$(\bar{u}_1\gamma_\mu T^A u_1)(\bar{d}_1\gamma^\mu T^A d_3)$	$^{\mathrm{C}}$
$\begin{array}{c} \text{ud8_1133} & \left(\bar{u}_1 \gamma_\mu T^A u_1 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \right) & \text{R} \\ \text{ud8_1211} & \left(\bar{u}_1 \gamma_\mu T^A u_2 \right) \left(\bar{d}_1 \gamma^\mu T^A d_1 \right) & \text{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{C} \\ \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_1223} & \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_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_2 \right) \left(\bar{d}_3 \gamma^\mu T^A d_3 \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_3 \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_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_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_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_1333} & \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_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_1332} & \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_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_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_2222} & \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_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_3 \right) \left(\bar{d}_1 \gamma^\mu T^A d_3 \right) & $	ud8_1122		R
$\begin{array}{c} \text{ud8_1211} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1212} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{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_2\right) & \text{C} \\ \text{ud8_1233} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_3\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_3\right) & \text{C} \\ \text{ud8_1313} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1313} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1321} & \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_1333} & \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}_3\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_3\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_2213} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2223} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2233} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2233} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_2311} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\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) & $	ud8_1123		C
$\begin{array}{c} \text{ud8_1212} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1213} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_1221} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_1\right) \\ \text{ud8_1222} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_1\right) \\ \text{ud8_1223} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1231} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_1232} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_3\gamma^{\mu}T^Ad_1\right) \\ \text{ud8_1233} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1233} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1311} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1312} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1313} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_1321} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_1322} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_1\right) \\ \text{ud8_1323} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1331} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_1331} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_1332} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_3\gamma^{\mu}T^Ad_1\right) \\ \text{ud8_1333} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_1333} & \left(\bar{u}_1\gamma_{\mu}T^Au_3\right) \left(\bar{d}_3\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_2211} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_2212} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_2213} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_2223} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_2\right) \\ \text{ud8_2233} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_2231} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right) \left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) \\ \text{ud8_2311} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right) \left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) \\$	ud8_1133	$(\bar{u}_1\gamma_\mu T^A u_1)(\bar{d}_3\gamma^\mu T^A d_3)$	R
$\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_2\right) & \text{C} \\ \text{ud8_1231} & \left(\bar{u}_1\gamma_{\mu}T^Au_2\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_3\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_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_1312} & \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}_1\gamma^{\mu}T^Ad_3\right) & \text{C} \\ \text{ud8_1321} & \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_2\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_2\right) & \text{C} \\ \text{ud8_2213} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2223} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{R} \\ \text{ud8_2223} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_3\right) & \text{R} \\ \text{ud8_2233} & \left(\bar{u}_2\gamma_{\mu}T^Au_2\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right) & \text{R} \\ \text{ud8_2311} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_1\right) & \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \text{ud8_2312} & \left(\bar{u}_2\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right) & \text{C} \\ \end{array}$	ud8_1211		C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1212	$(\bar{u}_1\gamma_\mu T^A u_2) (\bar{d}_1\gamma^\mu T^A d_2)$	C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1213	$(\bar{u}_1\gamma_\mu T^A u_2)(\bar{d}_1\gamma^\mu T^A d_3)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1221		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1222	$(\bar{u}_1\gamma_\mu T^A u_2)(\bar{d}_2\gamma^\mu T^A d_2)$	C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1223		C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1231		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1232	$(\bar{u}_1\gamma_\mu T^A u_2)(\bar{d}_3\gamma^\mu T^A d_2)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1233		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1311		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1312	$(\bar{u}_1\gamma_{\mu}T^Au_3)(\bar{d}_1\gamma^{\mu}T^Ad_2)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1313	$(\bar{u}_1\gamma_\mu T^A u_3)(\bar{d}_1\gamma^\mu T^A d_3)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1321		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1322	$(\bar{u}_1\gamma_{\mu}T^Au_3)(\bar{d}_2\gamma^{\mu}T^Ad_2)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1323	$(\bar{u}_1\gamma_\mu T^A u_3)(\bar{d}_2\gamma^\mu T^A d_3)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1331		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1332	$(\bar{u}_1\gamma_\mu T^A u_3)(\bar{d}_3\gamma^\mu T^A d_2)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_1333	$(\bar{u}_1\gamma_\mu T^A u_3)(\bar{d}_3\gamma^\mu T^A d_3)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_2211	$(\bar{u}_2\gamma_\mu T^A u_2)(\bar{d}_1\gamma^\mu T^A d_1)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\eta}_2 \gamma_{\cdot \cdot} T^A \eta_2) (\bar{d}_1 \gamma^{\mu} T^A d_2)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_2222	$(\bar{u}_2\gamma_\mu T^A u_2)(\bar{d}_2\gamma^\mu T^A d_2)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_2223	$(\bar{u}_2\gamma_\mu T^A u_2)(\bar{d}_2\gamma^\mu T^A d_3)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ud8_2233	$\left(ar{u}_2\gamma_{\mu}T^Au_2 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_3 ight)$	R
ud8_2312 $\left(\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}\right)\left(\bar{d}_{1}\gamma^{\mu}T^{A}d_{2}\right)$ C Ud8_2313 $\left(\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}\right)\left(\bar{d}_{1}\gamma^{\mu}T^{A}d_{3}\right)$ C		$\left(ar{u}_2\gamma_{\mu}T^Au_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_1 ight)$	\mathbf{C}
ud8_2313 $\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$ C	ud8_2312	$\left(ar{u}_2\gamma_{\mu}T^Au_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	\mathbf{C}
	ud8_2313	$\left(ar{u}_2\gamma_\mu T^A u_3 ight)\left(ar{d}_1\gamma^\mu T^A d_3 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
ud8_2321	$(\bar{u}_2\gamma_\mu T^A u_3) (\bar{d}_2\gamma^\mu T^A d_1)$	C
ud8_2322	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	\mathbf{C}
ud8_2323	$\left(ar{u}_2\gamma_\mu T^A u_3\right)\left(ar{d}_2\gamma^\mu T^A d_3\right)$	\mathbf{C}
ud8_2331	$(\bar{u}_2\gamma_\mu T^A u_3)(\bar{d}_3\gamma^\mu T^A d_1)$	\mathbf{C}
ud8_2332	$(\bar{u}_2\gamma_\mu T^A u_3)(\bar{d}_3\gamma^\mu T^A d_2)$	\mathbf{C}
ud8_2333	$(\bar{u}_2\gamma_\mu T^A u_3)(\bar{d}_3\gamma^\mu T^A d_3)$	\mathbf{C}
ud8_3311	$(\bar{u}_3\gamma_\mu T^A u_3)(\bar{d}_1\gamma^\mu T^A d_1)$	R
ud8_3312	$(\bar{u}_3\gamma_\mu T^A u_3)(\bar{d}_1\gamma^\mu T^A d_2)$	\mathbf{C}
ud8_3313	$(\bar{u}_3\gamma_\mu T^A u_3)(\bar{d}_1\gamma^\mu T^A d_3)$	\mathbf{C}
ud8_3322	$(\bar{u}_3\gamma_\mu T^A u_3)(\bar{d}_2\gamma^\mu T^A d_2)$	R
ud8_3323	$(\bar{u}_3\gamma_\mu T^Au_3)(\bar{d}_2\gamma^\mu T^Ad_3)$	C
ud8_3333	$(\bar{u}_3\gamma_\mu T^A u_3)(\bar{d}_3\gamma^\mu T^A d_3)$	R
le_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	R
le_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	C
le_1113	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{e}_1\gamma^\mu e_3)$	$^{\mathrm{C}}$
le_1122	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	R
le_1123	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	C
le_1133	$(\bar{\ell}_1\gamma_\mu\ell_1)(\bar{e}_3\gamma^\mu e_3)$	R
le_1211	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	$^{\mathrm{C}}$
le_1212	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	C
le_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
le_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_1 ight)$	C
le_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	$^{\mathrm{C}}$
le_1223	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
le_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_1 ight)$	$^{\mathrm{C}}$
le_1232	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_2 ight)$	$^{\mathrm{C}}$
le_1233	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	\mathbf{C}
le_1311	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	$^{\mathrm{C}}$
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	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	$^{\mathrm{C}}$
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	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	R
le_2212	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	$^{\mathrm{C}}$
le_2213	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	\mathbf{C}
le_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	R
le_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
le_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	R

WC name	Operator	Type
le_2311	$(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{e}_1\gamma^\mu e_1)$	С
le_2312	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{e}_1\gamma^\mu e_2)$	\mathbf{C}
le_2313	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{e}_1\gamma^\mu e_3)$	\mathbf{C}
le_2321	$(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{e}_2\gamma^\mu e_1)$	\mathbf{C}
le_2322	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{e}_2\gamma^\mu e_2)$	\mathbf{C}
le_2323	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{e}_2\gamma^\mu e_3)$	\mathbf{C}
le_2331	$(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{e}_3\gamma^\mu e_1)$	\mathbf{C}
le_2332	$(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{e}_3\gamma^\mu e_2)$	\mathbf{C}
le_2333	$(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{e}_3\gamma^\mu e_3)$	\mathbf{C}
le_3311	$(\bar{\ell}_3\gamma_\mu\ell_3)(\bar{e}_1\gamma^\mu e_1)$	\mathbf{R}
le_3312	$(\bar{\ell}_3\gamma_\mu\ell_3)(\bar{e}_1\gamma^\mu e_2)$	\mathbf{C}
le_3313	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	\mathbf{C}
le_3322	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	\mathbf{R}
le_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3\right)\left(ar{e}_2\gamma^\mu e_3 ight)$	\mathbf{C}
le_3333	$(\bar{\ell}_3\gamma_\mu\ell_3)(\bar{e}_3\gamma^\mu e_3)$	\mathbf{R}
lu_1111	$(\bar{\ell}_1\gamma_\mu\ell_1)(\bar{u}_1\gamma^\mu u_1)$	\mathbf{R}
lu_1112	$(\bar{\ell}_1\gamma_\mu\ell_1)(\bar{u}_1\gamma^\mu u_2)$	\mathbf{C}
lu_1113	$(\bar{\ell}_1\gamma_\mu\ell_1)(\bar{u}_1\gamma^\mu u_3)$	\mathbf{C}
lu_1122	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{u}_2\gamma^\mu u_2 ight)$	\mathbf{R}
lu_1123	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	\mathbf{C}
lu_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{u}_3\gamma^\mu u_3 ight)$	R
lu_1211	$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	\mathbf{C}
lu_1212	$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	\mathbf{C}
lu_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	\mathbf{C}
lu_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{u}_2\gamma^\mu u_1 ight)$	\mathbf{C}
lu_1222	$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	\mathbf{C}
lu_1223	$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
lu_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2\right)\left(ar{u}_3\gamma^\mu u_1 ight)$	\mathbf{C}
lu_1232	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	\mathbf{C}
lu_1233	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{u}_3\gamma^\mu u_3 ight)$	\mathbf{C}
lu_1311	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_1 ight)$	\mathbf{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	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	\mathbf{C}
lu_1321	$\left(ar{\ell}_1\gamma_{\mu}\ell_3 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	\mathbf{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	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	\mathbf{C}
lu_1331	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_1 ight)$	\mathbf{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	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_3 ight)$	\mathbf{C}
lu_2211	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_1\gamma^\mu u_1 ight)$	R
lu_2212	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_1\gamma^\mu u_2 ight)$	\mathbf{C}
lu_2213	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	\mathbf{C}

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2222	$(\bar{\ell}_2\gamma_\mu\ell_2)(\bar{u}_2\gamma^\mu u_2)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2223		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2233		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2311	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_1 ight)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2312		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2313		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2321	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_1 ight)$	С
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2322		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2323		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_1 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_2 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_2333		\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_3311		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_3312	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_2 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_3313	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_3322	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_2 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lu_3333		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1112		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1113		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1122		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1123		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1133		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1211		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1212		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1213		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1221		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1222		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1223	\= · / \= /	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1231		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1232	$\left(ar{\ell}_1 \gamma_\mu \ell_2 ight) \left(ar{d}_3 \gamma^\mu d_2 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ld_1311	$\left(ar{\ell}_1 \gamma_\mu \ell_3 ight) \left(ar{d}_1 \gamma^\mu d_1 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(\ell_{1}\gamma_{\mu}\ell_{3} ight) \left(d_{1}\gamma^{\mu}d_{2} ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\left(\underline{\ell}_{1}\gamma_{\mu}\ell_{3} ight) \left(\underline{d}_{1}\gamma^{\mu}d_{3} ight)$	
1d_1323 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{d}_2 \gamma^\mu d_3)$ C 1d_1331 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{d}_3 \gamma^\mu d_1)$ C 1d_1332 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{d}_3 \gamma^\mu d_2)$ C		$\left(\ell_1 \gamma_\mu \ell_3 ight) \left(d_2 \gamma^\mu d_1 ight)$	
ld_1331 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{d}_3 \gamma^\mu d_1)$ C ld_1332 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{d}_3 \gamma^\mu d_2)$ C		$\left(\ell_1 \gamma_\mu \ell_3 \right) \left(d_2 \gamma^\mu d_2 \right)$	
ld_1332 $\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$ C		$\left(\ell_1\gamma_\mu\ell_3\right)\left(d_2\gamma^\mu d_3\right)$	
$(\ell_1 \gamma_\mu \ell_3) \left(d_3 \gamma^\mu d_3 \right) $ C			
	ld_1333	$(\ell_1\gamma_\mu\ell_3)\ (d_3\gamma^\mu d_3)$	С

WC name	Operator	Type
ld_2211	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	R
ld_2212	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	С
ld_2213	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	С
ld_2222	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{d}_2\gamma^\mu d_2)$	R
ld_2223	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{d}_2\gamma^\mu d_3)$	С
ld_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
ld_2311	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{d}_1\gamma^\mu d_1)$	С
ld_2312	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	С
ld_2313	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	С
ld_2321	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{d}_2\gamma^\mu d_1)$	С
ld_2322	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	\mathbf{C}
ld_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	С
ld_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_1 ight)$	С
ld_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_2 ight)$	С
ld_2333	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	С
ld_3311	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	R
ld_3312	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{d}_1\gamma^\mu d_2)$	С
ld_3313	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{d}_1\gamma^\mu d_3)$	С
ld_3322	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	R
ld_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	С
ld_3333	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
qe_1111	$(\bar{q}_1\gamma_\mu q_1)(\bar{e}_1\gamma^\mu e_1)$	R
qe_1112	$(ar{q}_1\gamma_\mu q_1)(ar{e}_1\gamma^\mu e_2)$	\mathbf{C}
qe_1113	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	С
qe_1122	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
qe_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	С
qe_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
qe_1211	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	C
qe_1212	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	С
qe_1213	$(ar{q}_1\gamma_\mu q_2)(ar{e}_1\gamma^\mu e_3)$	$\stackrel{ ext{C}}{\sim}$
qe_1221	$(ar{q}_1\gamma_\mu q_2)(ar{e}_2\gamma^\mu e_1)$	$\stackrel{ ext{C}}{ ext{c}}$
qe_1222	$(ar{q}_1\gamma_\mu q_2)(ar{e}_2\gamma^\mu e_2)$	С
qe_1223	$(\bar{q}_1\gamma_\mu q_2)(\bar{e}_2\gamma^\mu e_3)$	С
qe_1231	$(\bar{q}_1\gamma_\mu q_2)(\bar{e}_3\gamma^\mu e_1)$	С
qe_1232	$(\bar{q}_1\gamma_\mu q_2)(\bar{e}_3\gamma^\mu e_2)$	С
qe_1233	$(\bar{q}_1\gamma_\mu q_2)(\bar{e}_3\gamma^\mu e_3)$	C C
qe_1311 qe_1312	$egin{aligned} \left(ar{q}_1\gamma_\mu q_3 ight)\left(ar{e}_1\gamma^\mu e_1 ight) \ \left(ar{q}_1\gamma_\mu q_3 ight)\left(ar{e}_1\gamma^\mu e_2 ight) \end{aligned}$	C
qe_1312 qe_1313	$(q_1\gamma_\mu q_3) \left(\overline{e}_1\gamma^\mu \overline{e}_2 ight) \ \left(\overline{q}_1\gamma_\mu q_3 ight) \left(\overline{e}_1\gamma^\mu e_3 ight)$	C
qe_1313 qe_1321	$(q_1\gamma_\mu q_3) \left(e_1\gamma^\mu e_3 ight) \ (ar q_1\gamma_\mu q_3) \left(ar e_2\gamma^\mu e_1 ight)$	C
qe_1321 qe_1322	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_1 ight) \ \left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	C
qe_1323	$egin{array}{l} (q_1\gamma_\mu q_3)(e_2\gamma^-e_2) \ (ar q_1\gamma_\mu q_3)(ar e_2\gamma^\mu e_3) \end{array}$	C
qe_1331	$egin{array}{l} (q_1\gamma_\mu q_3)(e_2\gamma^-e_3) \ (ar q_1\gamma_\mu q_3)(ar e_3\gamma^\mu e_1) \end{array}$	C
4~_1001	$(41/\mu43)(C3/C1)$	C

WC name	Operator	Type
qe_1332	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{e}_3\gamma^{\mu}e_2 ight)$	С
qe_1333	$(ar{q}_1\gamma_\mu q_3)(ar{e}_3\gamma^\mu e_3)$	\mathbf{C}
qe_2211	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	R
qe_2212	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	\mathbf{C}
qe_2213	$(ar{q}_2\gamma_\mu q_2)(ar{e}_1\gamma^\mu e_3)$	\mathbf{C}
qe_2222	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
qe_2223	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
qe_2233	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
qe_2311	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	$^{\mathrm{C}}$
qe_2312	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	$^{\mathrm{C}}$
qe_2313	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	$^{\mathrm{C}}$
qe_2321	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_1 ight)$	\mathbf{C}
qe_2322	$(ar{q}_2\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_2)$	\mathbf{C}
qe_2323	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	\mathbf{C}
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	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	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	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
qe_3323	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	С
qe_3333	$(ar{q}_3\gamma_\mu q_3)(ar{e}_3\gamma^\mu e_3)$	R
qu1_1111	$(\bar{q}_1\gamma_\mu q_1)(\bar{u}_1\gamma^\mu u_1)$	R
qu1_1112	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$\stackrel{ ext{C}}{\sim}$
qu1_1113	$(\bar{q}_1\gamma_\mu q_1)(\bar{u}_1\gamma^\mu u_3)$	С
qu1_1122	$(\bar{q}_1\gamma_\mu q_1)(\bar{u}_2\gamma^\mu u_2)$	R
qu1_1123	$(\bar{q}_1\gamma_\mu q_1)(\bar{u}_2\gamma^\mu u_3)$	С
qu1_1133	$(\bar{q}_1\gamma_\mu q_1)(\bar{u}_3\gamma^\mu u_3)$	R
qu1_1211	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_1\gamma^\mu u_1)$	С
qu1_1212	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_1\gamma^\mu u_2)$	С
qu1_1213	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_1\gamma^\mu u_3)$	С
qu1_1221	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_2\gamma^\mu u_1)$	С
qu1_1222	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_2\gamma^\mu u_2)$	С
qu1_1223	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_2\gamma^\mu u_3)$	C C
qu1_1231	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_3\gamma^\mu u_1)$	-
qu1_1232	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_3\gamma^\mu u_2)$	C C
qu1_1233	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_3\gamma^\mu u_3)$	C
qu1_1311	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_1\gamma^\mu u_1)$	C
qu1_1312	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_1\gamma^\mu u_2)$	C
qu1_1313	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_1\gamma^\mu u_3)$	C
qu1_1321	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_1)$	C
qu1_1322	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_2)$ $(\bar{q}_1\gamma_\mu q_3)(\bar{q}_2\gamma^\mu u_2)$	C
qu1_1323	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_3)$	C

WC name	Operator	Type
qu1_1331	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_3\gamma^\mu u_1)$	$^{ m C}_{ m C}$
qu1_1332	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_3\gamma^\mu u_2)$	
qu1_1333	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_3\gamma^\mu u_3)$	С
qu1_2211	$(ar{q}_2\gamma_\mu q_2)(ar{u}_1\gamma^\mu u_1)$	R
qu1_2212	$(ar{q}_2\gamma_\mu q_2)(ar{u}_1\gamma^\mu u_2)$	C
qu1_2213	$(\bar{q}_2\gamma_\mu q_2)(\bar{u}_1\gamma^\mu u_3)$	С
qu1_2222	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	R
qu1_2223	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	С
qu1_2233	$(ar{q}_2\gamma_\mu q_2)(ar{u}_3\gamma^\mu u_3)$	R
qu1_2311	$(ar{q}_2\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_1)$	C
qu1_2312	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	C
qu1_2313	$(ar{q}_2\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_3)$	$\overset{ ext{C}}{\widetilde{\sim}}$
qu1_2321	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	C
qu1_2322	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	C
qu1_2323	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	C
qu1_2331	$\left(\bar{q}_2\gamma_{\mu}q_3\right)\left(\bar{u}_3\gamma^{\mu}u_1\right)$	C
qu1_2332	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
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	$\left(\bar{q}_3\gamma_{\mu}q_3\right)\left(\bar{u}_1\gamma^{\mu}u_2\right)$	$^{\mathrm{C}}$
qu1_3313	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
qu1_3322	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	R
qu1_3323	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	\mathbf{C}
qu1_3333	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	R
qd1_1111	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(d_1\gamma^{\mu}d_1 ight)$	R
qd1_1112	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	\mathbf{C}
qd1_1113	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
qd1_1122	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	R
qd1_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
qd1_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R
qd1_1211	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
qd1_1212	$(ar{q}_1\gamma_{\mu}q_2)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
qd1_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
qd1_1221	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
qd1_1222	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
qd1_1223	$(ar{q}_1\gamma_{\mu}q_2)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
qd1_1231	$(ar{q}_1\gamma_\mu q_2)\left(ar{d}_3\gamma^\mu d_1 ight)$	$^{\mathrm{C}}$
qd1_1232	$(ar{q}_1\gamma_\mu q_2)\left(ar{d}_3\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
qd1_1233	$(ar{q}_1\gamma_\mu q_2)\left(ar{d}_3\gamma^\mu d_3 ight)$	\mathbf{C}
qd1_1311	$(ar{q}_1\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_1 ight)$	\mathbf{C}
qd1_1312	$(ar{q}_1\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
qd1_1313	$(ar{q}_1\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	\mathbf{C}
qd1_1321	$(ar{q}_1\gamma_\mu q_3) \left(ar{d}_2\gamma^\mu d_1 ight)$	C
<u> </u>	(11 /µ 10) (12 / 11)	~

WC name	Operator	Type
qd1_1322	$(\bar{q}_1\gamma_\mu q_3) \left(\bar{d}_2\gamma^\mu d_2\right)$	С
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	$(ar{q}_1\gamma_{\mu}q_3)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	\mathbf{C}
qd1_2211	$(ar{q}_2\gamma_\mu q_2)\left(ar{d}_1\gamma^\mu d_1 ight)$	${ m R}$
qd1_2212	$(ar{q}_2\gamma_\mu q_2) \left(ar{d}_1\gamma^\mu d_2 ight)$	\mathbf{C}
qd1_2213	$(ar{q}_2\gamma_\mu q_2)\left(ar{d}_1\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
qd1_2222	$(ar{q}_2\gamma_\mu q_2)\left(ar{d}_2\gamma^\mu d_2 ight)$	R
qd1_2223	$(ar{q}_2\gamma_\mu q_2)ig(ar{d}_2\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
qd1_2233	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R
qd1_2311	$(ar{q}_2\gamma_\mu q_3)\left(ar{d}_1\gamma^\mu d_1 ight)$	$^{\mathrm{C}}$
qd1_2312	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
qd1_2313	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
qd1_2321	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
qd1_2322	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
qd1_2323	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
qd1_2331	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
qd1_2332	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
qd1_2333	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
qd1_3311	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
qd1_3312	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
qd1_3313	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
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	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_3 ight)$	R
qu8_1111	$\left(ar{q}_1\gamma_{\mu}T^A_{q_1} ight)\left(ar{u}_1\gamma^{\mu}T^A_{u_1} ight)$	R
qu8_1112	$\left(\bar{q}_1 \gamma_\mu T^A q_1 \right) \left(\bar{u}_1 \gamma^\mu T^A u_2 \right)$	C
qu8_1113	$\left(ar{q}_1 \gamma_\mu T^A q_1 \right) \left(ar{u}_1 \gamma^\mu T^A u_3 \right)$	С
qu8_1122	$\left\langle \bar{q}_1 \gamma_\mu T^A q_1 \right\rangle \left\langle \bar{u}_2 \gamma^\mu T^A u_2 \right\rangle$	R
qu8_1123	$\left\langle \bar{q}_1 \gamma_\mu T^A q_1 \right\rangle \left\langle \bar{u}_2 \gamma^\mu T^A u_3 \right\rangle$	С
qu8_1133	$\left(\bar{q}_1\gamma_{\mu}T^Aq_1\right)\left(\bar{u}_3\gamma^{\mu}T^Au_3\right)$	R
qu8_1211	$egin{aligned} \left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_1 ight) \ \left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_2 ight) \end{aligned}$	C C
qu8_1212	$egin{aligned} \left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_2 ight) \ \left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_3 ight) \end{aligned}$	C
qu8_1213 qu8_1221	$egin{pmatrix} \left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_3 ight) \ \left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_2\gamma^\mu T^Au_1 ight) \end{pmatrix}$	C
qu8_1221 qu8_1222	$egin{pmatrix} (q_1)_{\mu 1} & q_2 \end{pmatrix} (u_2)_{\Gamma} & T & u_1 \end{pmatrix} \ (ar{q}_1 \gamma_{\mu} T^A q_2) & (ar{u}_2 \gamma^{\mu} T^A u_2) \end{pmatrix}$	C
qu8_1223	$egin{pmatrix} (q_1)_\mu \Gamma & q_2 \end{pmatrix} ig(ar{q}_1 \gamma_\mu \Gamma^A q_2 ig) ig(ar{u}_2 \gamma^\mu \Gamma^A u_3 ig) \end{pmatrix}$	C
qu8_1231	$egin{array}{l} (ar{q}_1\gamma_\mu \Gamma^A q_2) & (ar{a}_2\gamma^\mu \Gamma^A u_1) \ (ar{q}_1\gamma_\mu \Gamma^A q_2) & (ar{u}_3\gamma^\mu \Gamma^A u_1) \end{array}$	C
qu8_1232	$egin{array}{l} (ar{q}_1\gamma_\mu T^Aq_2) & (ar{a}_3\gamma^\mu T^Au_2) \ (ar{q}_1\gamma_\mu T^Aq_2) & (ar{u}_3\gamma^\mu T^Au_2) \end{array}$	$\stackrel{\circ}{\mathrm{C}}$
qu8_1233	$egin{array}{l} (ar{q}_1\gamma_\mu T^Aq_2) & (ar{u}_3\gamma^\mu T^Au_3) \ (ar{q}_1\gamma_\mu T^Aq_2) & (ar{u}_3\gamma^\mu T^Au_3) \end{array}$	$\overset{\circ}{\mathrm{C}}$
qu8_1311	$egin{pmatrix} (ar{q}_1\gamma_\mu\Gamma^Aq_2) & (ar{a}_3\gamma^\mu\Gamma^Aq_3) \ (ar{u}_1\gamma^\mu\Gamma^Au_1) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
qu8_1312	$egin{pmatrix} ar{(ar{q}_1\gamma_\mu T^Aq_3)} & ar{(ar{u}_1\gamma^\mu T^Au_2)} \end{pmatrix}$	C
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WC name	Operator	Type
qu8_1313	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_3 ight)$	C
qu8_1321	$(\bar{q}_1\gamma_\mu T^Aq_3)(\bar{u}_2\gamma^\mu T^Au_1)$	$^{\mathrm{C}}$
qu8_1322	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_1323	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_2\gamma^{\mu}T^Au_3 ight)$	$^{\mathrm{C}}$
qu8_1331	$(ar{q}_1\gamma_\mu T^Aq_3)~(ar{u}_3\gamma^\mu T^Au_1)$	$^{\mathrm{C}}$
qu8_1332	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_3\gamma^{\mu}T^Au_2 ight)$	\mathbf{C}
qu8_1333	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_3\gamma^{\mu}T^Au_3 ight)$	$^{\mathrm{C}}$
qu8_2211	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_1 ight)$	R
qu8_2212	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_2 ight)$	\mathbf{C}
qu8_2213	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_3 ight)$	\mathbf{C}
qu8_2222	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	R
qu8_2223	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_2\gamma^{\mu}T^Au_3 ight)$	$^{\mathrm{C}}$
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	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_1 ight)$	$^{\mathrm{C}}$
qu8_2312	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_2313	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_3 ight)$	$^{\mathrm{C}}$
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	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_3 ight)$	$^{\mathrm{C}}$
qu8_2331	$(ar{q}_2\gamma_\mu T^Aq_3)~(ar{u}_3\gamma^\mu T^Au_1)$	$^{\mathrm{C}}$
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	$(ar{q}_2\gamma_\mu T^Aq_3)~(ar{u}_3\gamma^\mu T^Au_3)$	\mathbf{C}
qu8_3311	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_1 ight)$	${ m R}$
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	$\left(ar{q}_3\gamma_{\mu}T^Aq_3\right)\left(ar{u}_1\gamma^{\mu}T^Au_3\right)$	$^{\mathrm{C}}$
qu8_3322	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	${ m R}$
qu8_3323	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_2\gamma^{\mu}T^Au_3 ight)$	\mathbf{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	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_1 ight)$	${ m R}$
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	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	\mathbf{C}
qd8_1133	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_3 ight)$	${ m R}$
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	$\left\langle ar{q}_1\gamma_{\mu}T^Aq_2 ight angle \left\langle ar{d}_1\gamma^{\mu}T^Ad_2 ight angle$	\mathbf{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	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_1 ight)$	\mathbf{C}
qd8_1222	$egin{pmatrix} (ar{q}_1\gamma_{\mu} T^A q_2) & (ar{d}_2\gamma^{\mu} T^A d_2) \ \end{pmatrix}$	$\dot{ ext{C}}$
qd8_1223	$egin{pmatrix} (ar{q}_1\gamma_\mu T^Aq_2) & (ar{d}_2\gamma^\mu T^Ad_3) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
qd8_1231	$egin{array}{l} (q_1)_{\mu 1} & q_2) & (a_2)_1 & a_3) \ (ar{q}_1 \gamma_{\mu} T^A q_2) & (ar{d}_3 \gamma^{\mu} T^A d_1) \end{array}$	$\overset{\circ}{\mathrm{C}}$
qd8_1232	$egin{array}{c} (q_1)_\mu \Gamma^A q_2 \end{pmatrix} (ar{d}_3 \gamma^\mu \Gamma^A d_2) \ (ar{q}_1 \gamma_\mu \Gamma^A q_2) \ (ar{d}_3 \gamma^\mu \Gamma^A d_2) \end{array}$	$\overset{\circ}{\mathrm{C}}$
qd8_1233	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_3\gamma^\mu T^Ad_3 ight) \left(ar{d}_3\gamma^\mu T^Ad_3 ight)$	C
quo_1233	(q_1, γ_{μ}, q_2) (a_3, γ, q_1, a_3)	C

WC name	Operator	Type
qd8_1311	$\left(ar{q}_1\gamma_\mu T^A q_3\right) \left(ar{d}_1\gamma^\mu T^A d_1\right)$	С
qd8_1312	$(\bar{q}_1\gamma_\mu T^Aq_3)(\bar{d}_1\gamma^\mu T^Ad_2)$	$^{\mathrm{C}}$
qd8_1313	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{d}_1\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_1321	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_1 ight)$	\mathbf{C}
qd8_1322	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_2 ight)$	$^{\mathrm{C}}$
qd8_1323	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_3 ight)$	\mathbf{C}
qd8_1331	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_1 ight)$	\mathbf{C}
qd8_1332	$\left(ar{q}_1 \gamma_\mu T^A q_3 \right) \left(ar{d}_3 \gamma^\mu T^A d_2 \right)$	$^{\mathrm{C}}$
qd8_1333	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{d}_3\gamma^\mu T^Ad_3 ight)$	\mathbf{C}
qd8_2211	$(\bar{q}_2\gamma_\mu T^Aq_2)(\bar{d}_1\gamma^\mu T^Ad_1)$	R
qd8_2212	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_2 ight)$	$^{\mathrm{C}}$
qd8_2213	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_2222	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_2\gamma^\mu T^Ad_2 ight)$	R
qd8_2223	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_2233	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_3\gamma^\mu T^Ad_3 ight)$	${ m R}$
qd8_2311	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{d}_1\gamma^\mu T^Ad_1 ight)$	$^{\mathrm{C}}$
qd8_2312	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	$^{\mathrm{C}}$
qd8_2313	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{d}_1\gamma^\mu T^Ad_3 ight)$	$^{\mathrm{C}}$
qd8_2321	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_1 ight)$	$^{\mathrm{C}}$
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	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_1 ight)$	\mathbf{C}
qd8_2332	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_2 ight)$	\mathbf{C}
qd8_2333	$\left(ar{q}_2\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_3 ight)$	\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	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	\mathbf{C}
qd8_3313	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_3 ight)$	\mathbf{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	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_3 ight)$	\mathbf{C}
qd8_3333	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(d_3\gamma^{\mu}T^Ad_3 ight)$	R
ledq_1111	$\left(ar{\ell}_1 e_1 ight) \left(ar{d}_1 q_1 ight)$	\mathbf{C}
ledq_1112	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_1q_2 ight)$	\mathbf{C}
ledq_1113	$ig(ar{\ell}_1 e_1ig)ig(ar{d}_1 q_3ig)$	\mathbf{C}
ledq_1121	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_2q_1 ight)$	$^{\mathrm{C}}$
ledq_1122	$\left(ar{\ell}_1 e_1 ight)\left(ar{d}_2 q_2 ight)$	\mathbf{C}
ledq_1123	$\left(ar{\ell}_1 e_1 ight)\left(ar{d}_2 q_3 ight)$	\mathbf{C}
ledq_1131	$\left(ar{\ell}_1 e_1 ight)\left(ar{d}_3 q_1 ight)$	$^{\mathrm{C}}$
ledq_1132	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_3q_2 ight)$	$^{\mathrm{C}}$
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	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_1q_2 ight)$	$^{\mathrm{C}}$
ledq_1213	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_1q_3 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
ledq_1221	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_2q_1 ight)$	С
ledq_1222	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_2q_2 ight)$	\mathbf{C}
ledq_1223	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_2q_3 ight)$	\mathbf{C}
ledq_1231	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_3q_1 ight)$	\mathbf{C}
ledq_1232	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_3q_2 ight)$	\mathbf{C}
ledq_1233	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_3q_3 ight)$	\mathbf{C}
ledq_1311	$ig(ar{\ell}_1e_3ig)ig(ar{d}_1q_1ig)$	\mathbf{C}
ledq_1312	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_2 ight)$	\mathbf{C}
ledq_1313	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_3 ight)$	\mathbf{C}
ledq_1321	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_1 ight)$	\mathbf{C}
ledq_1322	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_2 ight)$	\mathbf{C}
ledq_1323	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_3 ight)$	\mathbf{C}
ledq_1331	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_3q_1 ight)$	\mathbf{C}
ledq_1332	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_3q_2 ight)$	\mathbf{C}
ledq_1333	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_3q_3 ight)$	\mathbf{C}
ledq_2111	$\left(ar{\ell}_{2}e_{1} ight)\left(ar{d}_{1}q_{1} ight)$	\mathbf{C}
ledq_2112	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_1 q_2 ight)$	\mathbf{C}
ledq_2113	$\left(\ell_{2}e_{1} ight)\left(d_{1}q_{3} ight)$	\mathbf{C}
ledq_2121	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_2 q_1 ight)$	\mathbf{C}
ledq_2122	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_2 q_2 ight)$	\mathbf{C}
ledq_2123	$\left(\ell_{2}e_{1} ight)\left(d_{2}q_{3} ight)$	\mathbf{C}
ledq_2131	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_3 q_1 ight)$	\mathbf{C}
ledq_2132	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_3 q_2 ight)$	\mathbf{C}
ledq_2133	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_3 q_3 ight)$	\mathbf{C}
ledq_2211	$\left(ar{\ell}_2 e_2 ight)\left(ar{d}_1 q_1 ight)$	\mathbf{C}
ledq_2212	$\left(ar{\ell}_2 e_2 ight)\left(ar{d}_1 q_2 ight)$	\mathbf{C}
ledq_2213	$\left(ar{\ell}_{2}e_{2} ight)\left(ar{d}_{1}q_{3} ight)$	\mathbf{C}
ledq_2221	$\left(ar{\ell}_2 e_2 ight)\left(ar{d}_2 q_1 ight)$	\mathbf{C}
ledq_2222	$\left(ar{\ell}_2 e_2 ight)\left(ar{d}_2 q_2 ight)$	\mathbf{C}
ledq_2223	$\left(ar{\ell}_2 e_2 ight)\left(ar{d}_2 q_3 ight)$	\mathbf{C}
ledq_2231	$\left(\ell_{2}e_{2}\right)\left(d_{3}q_{1}\right)$	\mathbf{C}
ledq_2232	$\left(ar{\ell}_{2}e_{2} ight)\left(ar{d}_{3}q_{2} ight)$	\mathbf{C}
ledq_2233	$\left(ar{\ell}_2 e_2 ight)\left(ar{d}_3 q_3 ight)$	\mathbf{C}
ledq_2311	$\left(ar{\ell}_2 e_3 ight) \left(ar{d}_1 q_1 ight)$	\mathbf{C}
ledq_2312	$\left(\ell_{2}e_{3} ight) \left(d_{1}q_{2} ight)$	С
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	$\left(ar{\ell}_2 e_3 ight) \left(ar{d}_2 q_2 ight)$	$^{\mathrm{C}}$
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	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_3 q_3 ight)$	С

WC name	Operator	Type
ledq_3111	$\left(ar{\ell}_{3}e_{1} ight)\left(ar{d}_{1}q_{1} ight)$	С
ledq_3112	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_1 q_2 ight)$	\mathbf{C}
ledq_3113	$ig(ar{\ell}_3 e_1ig)ig(ar{d}_1 q_3ig)$	\mathbf{C}
ledq_3121	$ig(ar{\ell}_3 e_1ig)ig(ar{d}_2 q_1ig)$	\mathbf{C}
ledq_3122	$ig(ar{\ell}_3 e_1ig)ig(ar{d}_2 q_2ig)$	\mathbf{C}
ledq_3123	$ig(ar{\ell}_3 e_1ig)ig(ar{d}_2 q_3ig)$	\mathbf{C}
ledq_3131	$(ar{\ell}_3 e_1) (ar{d}_3 q_1)$	\mathbf{C}
ledq_3132	$ig(ar{\ell}_3 e_1ig)ig(ar{d}_3 q_2ig)$	\mathbf{C}
ledq_3133	$ig(ar{\ell}_3 e_1ig)ig(ar{d}_3 q_3ig)$	\mathbf{C}
ledq_3211	$(ar{\ell}_3 e_2) (ar{d}_1 q_1)$	\mathbf{C}
ledq_3212	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_1 q_2ig)$	\mathbf{C}
ledq_3213	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_1 q_3ig)$	\mathbf{C}
ledq_3221	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_2 q_1 ight)$	\mathbf{C}
ledq_3222	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_2 q_2ig)$	\mathbf{C}
ledq_3223	$\left(ar{\ell}_3e_2 ight)\left(ar{d}_2q_3 ight)$	\mathbf{C}
ledq_3231	$\left(ar{\ell}_3e_2 ight)\left(ar{d}_3q_1 ight)$	\mathbf{C}
ledq_3232	$\left(ar{\ell}_3e_2 ight)\left(ar{d}_3q_2 ight)$	\mathbf{C}
ledq_3233	$\left(ar{\ell}_3e_2 ight)\left(ar{d}_3q_3 ight)$	\mathbf{C}
ledq_3311	$\left(ar{\ell}_3 e_3 ight)\left(ar{d}_1 q_1 ight)$	\mathbf{C}
ledq_3312	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_1q_2 ight)$	\mathbf{C}
ledq_3313	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_1q_3 ight)$	\mathbf{C}
ledq_3321	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_2q_1 ight)$	\mathbf{C}
ledq_3322	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_2q_2 ight)$	\mathbf{C}
ledq_3323	$\left(ar{\ell}_3 e_3 ight)\left(ar{d}_2 q_3 ight)$	\mathbf{C}
ledq_3331	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_1 ight)$	\mathbf{C}
ledq_3332	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_2 ight)$	\mathbf{C}
ledq_3333	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_3 ight)$	\mathbf{C}
quqd1_1111	$\left(ar{q}_{1}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	\mathbf{C}
quqd1_1112	$\left(ar{q}_{1}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	\mathbf{C}
quqd1_1113	$\left(ar{q}_{1}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	C
quqd1_1121	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_2d_1)$	C
quqd1_1122	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_2d_2)$	С
quqd1_1123	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_2d_3)$	С
quqd1_1131	$(\bar{q}_1 u_1) \epsilon_{jk} (\bar{q}_3 d_1)$	С
quqd1_1132	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_3d_2)$	$_{ m C}^{ m C}$
quqd1_1133	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_3d_3)$	C
quqd1_1211 quqd1_1212	$egin{aligned} \left(ar{q}_1u_2 ight)\epsilon_{jk}\left(ar{q}_1d_1 ight) \ \left(ar{q}_1u_2 ight)\epsilon_{jk}\left(ar{q}_1d_2 ight) \end{aligned}$	C
quqd1_1212 quqd1_1213	$egin{array}{l} (q_1u_2)\epsilon_{jk}(q_1u_2)\ (ar q_1u_2)\epsilon_{jk}(ar q_1d_3) \end{array}$	C
quqd1_1213 quqd1_1221	$egin{array}{l} (q_1u_2)\epsilon_{jk}(q_1u_3)\ (ar q_1u_2)\epsilon_{jk}(ar q_2d_1) \end{array}$	C
quqd1_1222	$egin{array}{l} (q_1u_2)\epsilon_{jk}(q_2u_1) \ (ar{q}_1u_2)\epsilon_{jk}(ar{q}_2d_2) \end{array}$	C
quqd1_1223	$egin{array}{l} (q_1 a_2) \epsilon_{jk} (q_2 a_2) \ (ar q_1 a_2) \epsilon_{jk} (ar q_2 d_3) \end{array}$	$\stackrel{ ext{C}}{ ext{C}}$
quqd1_1231	$(q_1u_2)\epsilon_{jk}(q_2u_3) \ (ar q_1u_2)\epsilon_{jk}(ar q_3d_1)$	$\overset{\circ}{\mathrm{C}}$
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WC name	Operator	Type
quqd1_1232	$(\bar{q}_1 u_2) \epsilon_{jk} (\bar{q}_3 d_2)$	C
quqd1_1233	$(ar{q}_1u_2)\epsilon_{jk}(ar{q}_3d_3)$	$^{\mathrm{C}}$
quqd1_1311	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_1312	$\left(ar{q}_1 u_3 ight) \epsilon_{jk} \left(ar{q}_1 d_2 ight)$	\mathbf{C}
quqd1_1313	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	$^{\mathrm{C}}$
quqd1_1321	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	\mathbf{C}
quqd1_1322	$\left(ar{q}_1 u_3 ight) \epsilon_{jk} \left(ar{q}_2 d_2 ight)$	\mathbf{C}
quqd1_1323	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{3} ight)$	\mathbf{C}
quqd1_1331	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{1} ight)$	\mathbf{C}
quqd1_1332	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	\mathbf{C}
quqd1_1333	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{3} ight)$	\mathbf{C}
quqd1_2111	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	\mathbf{C}
quqd1_2112	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	\mathbf{C}
quqd1_2113	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	\mathbf{C}
quqd1_2121	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	\mathbf{C}
quqd1_2122	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	\mathbf{C}
quqd1_2123	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{3} ight)$	\mathbf{C}
quqd1_2131	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{3}d_{1} ight)$	\mathbf{C}
quqd1_2132	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	$^{\mathrm{C}}$
quqd1_2133	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{3}d_{3} ight)$	$^{\mathrm{C}}$
quqd1_2211	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$^{\mathrm{C}}$
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	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	$^{\mathrm{C}}$
quqd1_2222	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	\mathbf{C}
quqd1_2223	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{3} ight)$	\mathbf{C}
quqd1_2231	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{3}d_{1} ight)$	\mathbf{C}
quqd1_2232	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	\mathbf{C}
quqd1_2233	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{3}d_{3} ight)$	\mathbf{C}
quqd1_2311	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	\mathbf{C}
quqd1_2312	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	\mathbf{C}
quqd1_2313	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	\mathbf{C}
quqd1_2321	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	\mathbf{C}
quqd1_2322	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	\mathbf{C}
quqd1_2323	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{3} ight)$	\mathbf{C}
quqd1_2331	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{1} ight)$	\mathbf{C}
quqd1_2332	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	\mathbf{C}
quqd1_2333	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{3} ight)$	\mathbf{C}
quqd1_3111	$\left(ar{q}_{3}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	\mathbf{C}
quqd1_3112	$\left(ar{q}_{3}u_{1} ight) \epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	\mathbf{C}
quqd1_3113	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_1d_3)$	\mathbf{C}
quqd1_3121	$\left(ar{q}_{3}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	\mathbf{C}
quqd1_3122	$\left(ar{q}_{3}u_{1} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	\mathbf{C}
quqd1_3123	$\left(\bar{q}_{3}u_{1}\right)\epsilon_{jk}\left(\bar{q}_{2}d_{3}\right)$	\mathbf{C}

WC name	Operator	Type
quqd1_3131	$\left(\bar{q}_{3}u_{1}\right)\epsilon_{jk}\left(\bar{q}_{3}d_{1}\right)$	C
quqd1_3132	$(\bar{q}_3 u_1) \epsilon_{jk} (\bar{q}_3 d_2)$	$^{\mathrm{C}}$
quqd1_3133	$\left(ar{q}_3 u_1 ight) \epsilon_{jk} \left(ar{q}_3 d_3 ight)$	$^{\mathrm{C}}$
quqd1_3211	$(\bar{q}_3 u_2) \epsilon_{jk} (\bar{q}_1 d_1)$	$^{\mathrm{C}}$
quqd1_3212	$\left(\bar{q}_{3}u_{2}\right)\epsilon_{jk}\left(\bar{q}_{1}d_{2}\right)$	$^{\mathrm{C}}$
quqd1_3213	$\left(\bar{q}_{3}u_{2}\right)\epsilon_{jk}\left(\bar{q}_{1}d_{3}\right)$	$^{\mathrm{C}}$
quqd1_3221	$(\bar{q}_3 u_2) \epsilon_{jk} (\bar{q}_2 d_1)$	$^{\mathrm{C}}$
quqd1_3222	$(\bar{q}_3 u_2) \epsilon_{jk} (\bar{q}_2 d_2)$	$^{\mathrm{C}}$
quqd1_3223	$(\bar{q}_3 u_2) \epsilon_{jk} (\bar{q}_2 d_3)$	$^{\mathrm{C}}$
quqd1_3231	$(\bar{q}_3 u_2) \epsilon_{jk} (\bar{q}_3 d_1)$	$^{\mathrm{C}}$
quqd1_3232	$(\bar{q}_3 u_2) \epsilon_{jk} (\bar{q}_3 d_2)$	$^{\mathrm{C}}$
quqd1_3233	$(\bar{q}_3 u_2) \epsilon_{jk} (\bar{q}_3 d_3)$	$^{\mathrm{C}}$
quqd1_3311	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_1d_1)$	$^{\mathrm{C}}$
quqd1_3312	$(\bar{q}_3 u_3) \epsilon_{jk} (\bar{q}_1 d_2)$	$^{\mathrm{C}}$
quqd1_3313	$(\bar{q}_3 u_3) \epsilon_{jk} (\bar{q}_1 d_3)$	$^{\mathrm{C}}$
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	$(ar{q}_3u_3)\epsilon_{jk}(ar{q}_3d_2)$	\mathbf{C}
quqd1_3333	$(ar{q}_3u_3)\epsilon_{jk}(ar{q}_3d_3)$	\mathbf{C}
quqd8_1111	$(\bar{q}_1 T^A u_1) \epsilon_{jk} (\bar{q}_1 T^A d_1)$	\mathbf{C}
quqd8_1112	$\left\langle ar{q}_1 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_2 \right angle$	\mathbf{C}
quqd8_1113	$\left\langle ar{q}_1 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_3 \right angle$	\mathbf{C}
quqd8_1121	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{ik} \left(\bar{q}_2 T^A d_1\right)$	\mathbf{C}
quqd8_1122	$(\bar{q}_1 T^A u_1) \epsilon_{jk} (\bar{q}_2 T^A d_2)$	\mathbf{C}
quqd8_1123	$\left\langle ar{q}_1 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_2 T^A d_3 \right angle$	\mathbf{C}
quqd8_1131	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{ik} \left(\bar{q}_3 T^A d_1\right)$	\mathbf{C}
quqd8_1132	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{ik} \left(\bar{q}_3 T^A d_2\right)$	\mathbf{C}
quqd8_1133	$\left(ar{q}_1 T^A u_1 ight) \epsilon_{jk} \left(ar{q}_3 T^A d_3 ight)$	\mathbf{C}
quqd8_1211	$\left(ar{q}_1 T^A u_2\right) \epsilon_{jk} \left(ar{q}_1 T^A d_1\right)$	\mathbf{C}
quqd8_1212	$\left(ar{q}_1 T^A u_2\right) \epsilon_{jk} \left(ar{q}_1 T^A d_2\right)$	\mathbf{C}
quqd8_1213	$\left\langle ar{q}_1 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_3 \right angle$	\mathbf{C}
quqd8_1221	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	\mathbf{C}
quqd8_1222	$(\bar{q}_1 T^A u_2) \epsilon_{ik} (\bar{q}_2 T^A d_2)$	\mathbf{C}
quqd8_1223	$\left\langle \bar{q}_{1}T^{A}u_{2}\right\rangle \epsilon_{jk}\left\langle \bar{q}_{2}T^{A}d_{3}\right\rangle$	\mathbf{C}
quqd8_1231	$\left\langle ar{q}_{1}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{3}T^{A}d_{1} ight angle$	\mathbf{C}
quqd8_1232	$\left\langle ar{q}_1 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_3 T^A d_2 \right angle$	\mathbf{C}
quqd8_1233	$\left\langle \bar{q}_{1}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle \bar{q}_{3}T^{A}d_{3} ight angle$	\mathbf{C}
quqd8_1311	$\langle \bar{q}_1 T^A u_3 \rangle \epsilon_{jk} \langle \bar{q}_1 T^A d_1 \rangle$	\mathbf{C}
quqd8_1312	$\left\langle ar{q}_1 T^A u_3 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_2 \right angle$	$^{\mathrm{C}}$
quqd8_1313	$\left\langle ar{q}_1 T^A u_3 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_3 \right angle$	$^{\mathrm{C}}$
quqd8_1321	$\left\langle ar{q}_1 T^A u_3 \right angle \epsilon_{jk} \left\langle ar{q}_2 T^A d_1 \right angle$	$^{\mathrm{C}}$
quqd8_1322	$\left\langle ar{q}_1 T^A u_3 \right angle \epsilon_{jk} \left\langle ar{q}_2 T^A d_2 \right angle$	C
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WC name	Operator	Type
quqd8_1323	$(\bar{q}_1 T^A u_3) \epsilon_{jk} (\bar{q}_2 T^A d_3)$	C
quqd8_1331	$\left\langle ar{q}_1 T^A u_3 \right angle \epsilon_{jk} \left\langle ar{q}_3 T^A d_1 \right angle$	$^{\mathrm{C}}$
quqd8_1332	$(\bar{q}_1 T^A u_3) \epsilon_{jk} (\bar{q}_3 T^A d_2)$	$^{\mathrm{C}}$
quqd8_1333	$(\bar{q}_1 T^A u_3) \epsilon_{jk} (\bar{q}_3 T^A d_3)$	\mathbf{C}
quqd8_2111	$(\bar{q}_2 T^A u_1) \epsilon_{ik} (\bar{q}_1 T^A d_1)$	\mathbf{C}
quqd8_2112	$\left\langle \bar{q}_2 T^A u_1 \right\rangle \epsilon_{jk} \left\langle \bar{q}_1 T^A d_2 \right\rangle$	\mathbf{C}
quqd8_2113	$(\bar{q}_2 T^A u_1) \epsilon_{jk} (\bar{q}_1 T^A d_3)$	\mathbf{C}
quqd8_2121	$\left\langle ar{q}_2 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_2 T^A d_1 ight angle$	\mathbf{C}
quqd8_2122	$\left\langle ar{q}_{2}T^{A}u_{1} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{2} ight angle$	\mathbf{C}
quqd8_2123	$\left\langle ar{q}_{2}T^{A}u_{1} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{3} ight angle$	\mathbf{C}
quqd8_2131	$\left\langle ar{q}_{2}T^{A}u_{1} ight angle \epsilon_{jk}\left\langle ar{q}_{3}T^{A}d_{1} ight angle$	\mathbf{C}
quqd8_2132	$\left\langle ar{q}_{2}T^{A}u_{1} ight angle \epsilon_{jk}\left\langle ar{q}_{3}T^{A}d_{2} ight angle$	\mathbf{C}
quqd8_2133	$\left(ar{q}_2 T^A u_1\right) \epsilon_{jk} \left(ar{q}_3 T^A d_3\right)$	\mathbf{C}
quqd8_2211	$\left(ar{q}_2 T^A u_2\right) \epsilon_{jk} \left(ar{q}_1 T^A d_1\right)$	\mathbf{C}
quqd8_2212	$\left\langle ar{q}_{2}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{1}T^{A}d_{2} ight angle$	\mathbf{C}
quqd8_2213	$\left(ar{q}_2 T^A u_2 \right) \epsilon_{jk} \left(ar{q}_1 T^A d_3 \right)$	\mathbf{C}
quqd8_2221	$\left(ar{q}_2 T^A u_2 \right) \epsilon_{jk} \left(ar{q}_2 T^A d_1 \right)$	\mathbf{C}
quqd8_2222	$\left(ar{q}_2 T^A u_2\right) \epsilon_{jk} \left(ar{q}_2 T^A d_2\right)$	\mathbf{C}
quqd8_2223	$\left(ar{q}_2 T^A u_2 \right) \epsilon_{jk} \left(ar{q}_2 T^A d_3 \right)$	\mathbf{C}
quqd8_2231	$\left(ar{q}_2 T^A u_2\right) \epsilon_{jk} \left(ar{q}_3 T^A d_1\right)$	\mathbf{C}
quqd8_2232	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	\mathbf{C}
quqd8_2233	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	\mathbf{C}
quqd8_2311	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_1 T^A d_1\right)$	\mathbf{C}
quqd8_2312	$\left(ar{q}_2 T^A u_3 \right) \epsilon_{jk} \left(ar{q}_1 T^A d_2 \right)$	\mathbf{C}
quqd8_2313	$\left(ar{q}_2 T^A u_3 \right) \epsilon_{jk} \left(ar{q}_1 T^A d_3 \right)$	\mathbf{C}
quqd8_2321	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_1\right)$	\mathbf{C}
quqd8_2322	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_2\right)$	\mathbf{C}
quqd8_2323	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	\mathbf{C}
quqd8_2331	$\left(ar{q}_2 T^A u_3 \right) \epsilon_{jk} \left(ar{q}_3 T^A d_1 \right)$	\mathbf{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	$\left(ar{q}_2 T^A u_3 \right) \epsilon_{jk} \left(ar{q}_3 T^A d_3 \right)$	$^{\mathrm{C}}$
quqd8_3111	$\left(ar{q}_{3}T^{A}u_{1} ight) \epsilon_{jk}\left(ar{q}_{1}T^{A}d_{1} ight)$	$^{\mathrm{C}}$
quqd8_3112	$\left(ar{q}_{3}T^{A}u_{1} ight) \epsilon_{jk}\left(ar{q}_{1}T^{A}d_{2} ight)$	$^{\mathrm{C}}$
quqd8_3113	$\left(ar{q}_3T^A_{}u_1 ight)\epsilon_{jk}\left(ar{q}_1T^A_{}d_3 ight)$	$^{\mathrm{C}}$
quqd8_3121	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_3122	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_3123	$\left(ar{q}_3 T^A_{} u_1\right) \epsilon_{jk} \left(ar{q}_2 T^A_{} d_3\right)$	C
quqd8_3131	$\left\langle \bar{q}_{3}T^{A}u_{1}\right\rangle \epsilon_{jk}\left\langle \bar{q}_{3}T^{A}d_{1}\right\rangle$	C
quqd8_3132	$\left\langle \bar{q}_{3}T^{A}u_{1}\right\rangle \epsilon_{jk}\left\langle \bar{q}_{3}T^{A}d_{2}\right\rangle$	C
quqd8_3133	$\left\langle ar{q}_3 T^A u_1 \right\rangle \epsilon_{jk} \left\langle ar{q}_3 T^A d_3 \right\rangle$	C
quqd8_3211	$\left(\bar{q}_{3}T^{A}u_{2}\right)\epsilon_{jk}\left(\bar{q}_{1}T^{A}d_{1}\right)$	C
quqd8_3212	$\left(ar{q}_3 T^A u_2 \right) \epsilon_{jk} \left(ar{q}_1 T^A d_2 \right)$	C
quqd8_3213	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_3221	$\left(ar{q}_3 T^A u_2\right) \epsilon_{jk} \left(ar{q}_2 T^A d_1\right)$	$^{\mathrm{C}}$

WC name	Operator	Type
quqd8_3222	$(\bar{q}_3 T^A u_2) \epsilon_{jk} (\bar{q}_2 T^A d_2)$	C
quqd8_3223	$\left\langle ar{q}_3 T^A u_2 \right angle \epsilon_{jk} \left\langle ar{q}_2 T^A d_3 \right angle$	C
quqd8_3231	$\left\langle ar{q}_3 T^A u_2 \right\rangle \epsilon_{jk} \left\langle ar{q}_3 T^A d_1 \right\rangle$	$^{\mathrm{C}}$
quqd8_3232	$\left(\bar{q}_3T^Au_2\right)\epsilon_{jk}\left(\bar{q}_3T^Ad_2\right)$	$^{\mathrm{C}}$
quqd8_3233	$\left(\bar{q}_3T^Au_2\right)\epsilon_{jk}\left(\bar{q}_3T^Ad_3\right)$	$^{\mathrm{C}}$
quqd8_3311	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_3312	$(\bar{q}_3 T^A u_3) \epsilon_{jk} (\bar{q}_1 T^A d_2)$	\mathbf{C}
quqd8_3313	$\langle \bar{q}_3 T^A u_3 \rangle \epsilon_{jk} \langle \bar{q}_1 T^A d_3 \rangle$	\mathbf{C}
quqd8_3321	$\left\langle ar{q}_{3}T^{A}u_{3} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{1} ight angle$	\mathbf{C}
quqd8_3322	$\left\langle ar{q}_{3}T^{A}u_{3} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{2} ight angle$	\mathbf{C}
quqd8_3323	$\left\langle \bar{q}_{3}T^{A}u_{3}\right angle \epsilon_{jk}\left\langle \bar{q}_{2}T^{A}d_{3}\right\rangle$	\mathbf{C}
quqd8_3331	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_3332	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	$^{\mathrm{C}}$
quqd8_3333	$\left(ar{q}_3 T^A u_3 \right) \epsilon_{jk} \left(ar{q}_3 T^A d_3 \right)$	С
lequ1_1111	$\left(ar{\ell}_1 e_1 ight)\epsilon_{jk}\left(ar{q}_1 u_1 ight)$	$^{\mathrm{C}}$
lequ1_1112	$(\bar{\ell}_1 e_1) \epsilon_{jk} (\bar{q}_1 u_2)$	\mathbf{C}
lequ1_1113	$(\bar{\ell}_1 e_1) \epsilon_{jk} (\bar{q}_1 u_3)$	$^{\mathrm{C}}$
lequ1_1121	$(\bar{\ell}_1 e_1) \epsilon_{jk} (\bar{q}_2 u_1)$	\mathbf{C}
lequ1_1122	$(\bar{\ell}_1 e_1) \epsilon_{jk} (\bar{q}_2 u_2)$	\mathbf{C}
lequ1_1123	$(ar{\ell}_1 e_1) \epsilon_{jk} (ar{q}_2 u_3)$	\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	$(\bar{\ell}_1 e_1) \epsilon_{jk} (\bar{q}_3 u_3)$	\mathbf{C}
lequ1_1211	$(ar{\ell}_1 e_2) \epsilon_{jk} (ar{q}_1 u_1)$	\mathbf{C}
lequ1_1212	$(\bar{\ell}_1 e_2) \epsilon_{jk} (\bar{q}_1 u_2)$	\mathbf{C}
lequ1_1213	$\left(ar{\ell}_{1}e_{2} ight)\epsilon_{jk}\left(ar{q}_{1}u_{3} ight)$	\mathbf{C}
lequ1_1221	$(\bar{\ell}_1 e_2) \epsilon_{jk} (\bar{q}_2 u_1)$	\mathbf{C}
lequ1_1222	$(ar{\ell}_1 e_2) \epsilon_{jk} (ar{q}_2 u_2)$	\mathbf{C}
lequ1_1223	$(ar{\ell}_1 e_2) \epsilon_{jk} (ar{q}_2 u_3)$	\mathbf{C}
lequ1_1231	$(ar{\ell}_1 e_2) \epsilon_{jk} (ar{q}_3 u_1)$	\mathbf{C}
lequ1_1232	$(ar{\ell}_1 e_2) \epsilon_{jk} (ar{q}_3 u_2)$	\mathbf{C}
lequ1_1233	$(ar{\ell}_1 e_2) \epsilon_{jk} (ar{q}_3 u_3)$	\mathbf{C}
lequ1_1311	$(ar{\ell}_1 e_3) \epsilon_{jk} (ar{q}_1 u_1)$	\mathbf{C}
lequ1_1312	$(ar{\ell}_1 e_3) \epsilon_{jk} (ar{q}_1 u_2)$	\mathbf{C}
lequ1_1313	$\left(ar{\ell}_1e_3 ight)\epsilon_{jk}\left(ar{q}_1u_3 ight)$	\mathbf{C}
lequ1_1321	$(ar{\ell}_1 e_3) \epsilon_{jk} (ar{q}_2 u_1)$	$^{\mathrm{C}}$
lequ1_1322	$(ar{\ell}_1 e_3) \epsilon_{jk} (ar{q}_2 u_2)$	$^{\mathrm{C}}$
lequ1_1323	$(ar{\ell}_1 e_3) \epsilon_{jk} (ar{q}_2 u_3)$	$^{\mathrm{C}}$
lequ1_1331	$(ar{\ell}_1e_3)\epsilon_{jk}(ar{q}_3u_1)$	$^{\mathrm{C}}$
lequ1_1332	$(ar{\ell}_1 e_3) \epsilon_{jk} (ar{q}_3 u_2)$	$^{\mathrm{C}}$
lequ1_1333	$(ar{\ell}_1 e_3) \epsilon_{jk} (ar{q}_3 u_3)$	$^{\mathrm{C}}$
lequ1_2111	$(ar{\ell}_2 e_1) \epsilon_{jk} (ar{q}_1 u_1)$	$^{\mathrm{C}}$
lequ1_2112	$(ar{\ell}_2 e_1) \epsilon_{jk} (ar{q}_1 u_2)$	$^{\mathrm{C}}$
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WC name	Operator	Type
lequ1_2113	$\left(ar{\ell}_{2}e_{1} ight)\epsilon_{jk}\left(ar{q}_{1}u_{3} ight)$	С
lequ1_2121	$\left(ar{\ell}_{2}e_{1} ight)\epsilon_{jk}\left(ar{q}_{2}u_{1} ight)$	\mathbf{C}
lequ1_2122	$\left(ar{\ell}_2 e_1 ight)\epsilon_{jk}\left(ar{q}_2 u_2 ight)$	\mathbf{C}
lequ1_2123	$\left(ar{\ell}_{2}e_{1} ight)\epsilon_{jk}\left(ar{q}_{2}u_{3} ight)$	\mathbf{C}
lequ1_2131	$(\bar{\ell}_2 e_1) \epsilon_{jk} (\bar{q}_3 u_1)$	\mathbf{C}
lequ1_2132	$(ar{\ell}_2 e_1) \epsilon_{jk} (ar{q}_3 u_2)$	\mathbf{C}
lequ1_2133	$\left(ar{\ell}_2 e_1 ight)\epsilon_{jk}\left(ar{q}_3 u_3 ight)$	\mathbf{C}
lequ1_2211	$\left(ar{\ell}_2 e_2 ight)\epsilon_{jk}\left(ar{q}_1 u_1 ight)$	\mathbf{C}
lequ1_2212	$\left(ar{\ell}_{2}e_{2} ight)\epsilon_{jk}\left(ar{q}_{1}u_{2} ight)$	\mathbf{C}
lequ1_2213	$\left(ar{\ell}_{2}e_{2} ight)\epsilon_{jk}\left(ar{q}_{1}u_{3} ight)$	\mathbf{C}
lequ1_2221	$\left(ar{\ell}_2 e_2 ight)\epsilon_{jk}\left(ar{q}_2 u_1 ight)$	\mathbf{C}
lequ1_2222	$\left(ar{\ell}_{2}e_{2} ight)\epsilon_{jk}\left(ar{q}_{2}u_{2} ight)$	\mathbf{C}
lequ1_2223	$\left(ar{\ell}_2 e_2 ight)\epsilon_{jk}\left(ar{q}_2 u_3 ight)$	\mathbf{C}
lequ1_2231	$\left(ar{\ell}_2 e_2 ight)\epsilon_{jk}\left(ar{q}_3 u_1 ight)$	\mathbf{C}
lequ1_2232	$\left(ar{\ell}_2 e_2 ight)\epsilon_{jk}\left(ar{q}_3 u_2 ight)$	\mathbf{C}
lequ1_2233	$\left(ar{\ell}_{2}e_{2} ight)\epsilon_{jk}\left(ar{q}_{3}u_{3} ight)$	\mathbf{C}
lequ1_2311	$\left(ar{\ell}_2 e_3 ight)\epsilon_{jk}\left(ar{q}_1 u_1 ight)$	\mathbf{C}
lequ1_2312	$\left(ar{\ell}_2 e_3 ight)\epsilon_{jk}\left(ar{q}_1 u_2 ight)$	\mathbf{C}
lequ1_2313	$\left(ar{\ell}_{2}e_{3} ight)\epsilon_{jk}\left(ar{q}_{1}u_{3} ight)$	\mathbf{C}
lequ1_2321	$\left(ar{\ell}_{2}e_{3} ight)\epsilon_{jk}\left(ar{q}_{2}u_{1} ight)$	\mathbf{C}
lequ1_2322	$\left(ar{\ell}_{2}e_{3} ight)\epsilon_{jk}\left(ar{q}_{2}u_{2} ight)$	\mathbf{C}
lequ1_2323	$\left(ar{\ell}_2 e_3 ight)\epsilon_{jk}\left(ar{q}_2 u_3 ight)$	\mathbf{C}
lequ1_2331	$\left(ar{\ell}_2 e_3\right) \epsilon_{jk} \left(ar{q}_3 u_1 ight)$	\mathbf{C}
lequ1_2332	$\left(ar{\ell}_{2}e_{3} ight)\epsilon_{jk}\left(ar{q}_{3}u_{2} ight)$	\mathbf{C}
lequ1_2333	$\left(ar{\ell}_{2}e_{3} ight)\epsilon_{jk}\left(ar{q}_{3}u_{3} ight)$	\mathbf{C}
lequ1_3111	$\left(ar{\ell}_3 e_1 ight)\epsilon_{jk}\left(ar{q}_1 u_1 ight)$	\mathbf{C}
lequ1_3112	$\left(ar{\ell}_3 e_1 ight)\epsilon_{jk}\left(ar{q}_1 u_2 ight)$	\mathbf{C}
lequ1_3113	$\left(ar{\ell}_3 e_1 ight)\epsilon_{jk}\left(ar{q}_1 u_3 ight)$	\mathbf{C}
lequ1_3121	$(ar{\ell}_3 e_1) \epsilon_{jk} (ar{q}_2 u_1)$	\mathbf{C}
lequ1_3122	$\left(ar{\ell}_3 e_1 ight)\epsilon_{jk}\left(ar{q}_2 u_2 ight)$	\mathbf{C}
lequ1_3123	$\left(ar{\ell}_3 e_1\right) \epsilon_{jk} \left(ar{q}_2 u_3 ight)$	\mathbf{C}
lequ1_3131	$\left(ar{\ell}_3 e_1 ight)\epsilon_{jk}\left(ar{q}_3 u_1 ight)$	\mathbf{C}
lequ1_3132	$\left(ar{\ell}_3 e_1 ight)\epsilon_{jk}\left(ar{q}_3 u_2 ight)$	\mathbf{C}
lequ1_3133	$\left(ar{\ell}_3 e_1\right) \epsilon_{jk} \left(ar{q}_3 u_3 ight)$	\mathbf{C}
lequ1_3211	$\left(ar{\ell}_3 e_2\right) \epsilon_{jk} \left(ar{q}_1 u_1 ight)$	\mathbf{C}
lequ1_3212	$(ar{\ell}_3 e_2) \epsilon_{jk} (ar{q}_1 u_2)$	\mathbf{C}
lequ1_3213	$\left(ar{\ell}_3 e_2\right) \epsilon_{jk} \left(ar{q}_1 u_3 ight)$	\mathbf{C}
lequ1_3221	$\left(ar{\ell}_3 e_2 ight)\epsilon_{jk}\left(ar{q}_2 u_1 ight)$	\mathbf{C}
lequ1_3222	$\left(ar{\ell}_{3}e_{2} ight)\epsilon_{jk}\left(ar{q}_{2}u_{2} ight)$	\mathbf{C}
lequ1_3223	$(ar{\ell}_3 e_2) \epsilon_{jk} (ar{q}_2 u_3)$	\mathbf{C}
lequ1_3231	$(ar{\ell}_3 e_2) \epsilon_{jk} (ar{q}_3 u_1)$	\mathbf{C}
lequ1_3232	$(ar{\ell}_3 e_2) \epsilon_{jk} (ar{q}_3 u_2)$	\mathbf{C}

WC name	Operator	Type
lequ1_3233	$(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_3 u_3)$	C
lequ1_3311	$(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_1 u_1)$	\mathbf{C}
lequ1_3312	$\left(ar{\ell}_3 e_3 ight)\epsilon_{jk}\left(ar{q}_1 u_2 ight)$	\mathbf{C}
lequ1_3313	$\left(ar{\ell}_3 e_3\right) \epsilon_{jk} \left(ar{q}_1 u_3 ight)$	\mathbf{C}
lequ1_3321	$\left(ar{\ell}_3 e_3\right) \epsilon_{jk} \left(ar{q}_2 u_1 ight)$	\mathbf{C}
lequ1_3322	$\left(ar{\ell}_3 e_3 ight)\epsilon_{jk}\left(ar{q}_2 u_2 ight)$	\mathbf{C}
lequ1_3323	$\left(ar{\ell}_3 e_3\right) \epsilon_{jk} \left(ar{q}_2 u_3 ight)$	\mathbf{C}
lequ1_3331	$\left(ar{\ell}_3 e_3\right) \epsilon_{jk} \left(ar{q}_3 u_1 ight)$	\mathbf{C}
lequ1_3332	$\left(ar{\ell}_3 e_3 ight) \epsilon_{jk} \left(ar{q}_3 u_2 ight)$	\mathbf{C}
lequ1_3333	$\left(ar{\ell}_3 e_3 ight)\epsilon_{jk}\left(ar{q}_3 u_3 ight)$	\mathbf{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}
lequ3_1112	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	\mathbf{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	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_1122	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_1123	$\left(\ell_1 \sigma_{\mu u} e_1 ight) \epsilon_{jk} \left(ar{q}_2 \sigma^{\mu u} u_3 ight)$	\mathbf{C}
lequ3_1131	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_1132	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_1133	$\left(\bar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu u}u_3 ight)$	\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	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_1213	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_1221	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	\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	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_1231	$\left(\bar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu u}u_1 ight)$	\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	$\left(ar{\ell}_{1}\sigma_{\mu u}e_{3} ight)\epsilon_{jk}\left(ar{q}_{1}\sigma^{\mu u}u_{1} ight)$	\mathbf{C}
lequ3_1312	$\left(\ell_1 \sigma_{\mu u} e_3 ight) \epsilon_{jk} \left(ar{q}_1 \sigma^{\mu u} u_2 ight)$	\mathbf{C}
lequ3_1313	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_1321	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	\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	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2111	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	\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	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	\mathbf{C}
lequ3_2121	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_1\right)$	\mathbf{C}
lequ3_2122	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_2\right)$	\mathbf{C}

lequ3_2133	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	legu3 2123	$(\bar{\ell}_2\sigma_{\mu\nu}e_1)\epsilon_{ik}(\bar{q}_2\sigma^{\mu\nu}u_3)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2\sigma_{\mu\nu}e_1)\epsilon_{ik}(\bar{q}_3\sigma^{\mu\nu}u_1)$	
$\begin{array}{c} \operatorname{lequ3}_{2133} & (\bar{\ell}_2 \sigma_{\mu\nu} e_1) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3}_{2211} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{2212} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{2213} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3}_{2221} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_2 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{2222} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_2 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{2222} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_2 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{2223} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{2223} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{2223} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{22232} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{22233} & (\bar{\ell}_2 \sigma_{\mu\nu} e_2) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{22331} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{2311} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{2312} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{23212} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_2 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{23222} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_2 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{23232} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_2 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{23331} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{23332} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3}_{23332} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{23332} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{23332} & (\bar{\ell}_2 \sigma_{\mu\nu} e_3) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{23331} & (\bar{\ell}_3 \sigma_{\mu\nu} e_1) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{3111} & (\bar{\ell}_3 \sigma_{\mu\nu} e_1) \; \epsilon_{jk} \; (\bar{q}_1 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{31212} & (\bar{\ell}_3 \sigma_{\mu\nu} e_1) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{3122} & (\bar{\ell}_3 \sigma_{\mu\nu} e_1) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3}_{3122} & (\bar{\ell}_3 \sigma_{\mu\nu} e_1) \; \epsilon_{jk} \; (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3}_{32121} & (\bar{\ell}_3 \sigma_{\mu\nu} e_2)$		$(\bar{\ell}_2\sigma_{\mu\nu}e_1)\epsilon_{ik}(\bar{q}_3\sigma^{\mu\nu}u_2)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2 \sigma_{\mu\nu} e_1) \epsilon_{ik} (\bar{q}_3 \sigma^{\mu\nu} u_3)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2\sigma_{\mu\nu}e_2)\epsilon_{ik}(\bar{q}_1\sigma^{\mu\nu}u_1)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2\sigma_{\mu\nu}e_2)\epsilon_{ik}(\bar{q}_1\sigma^{\mu\nu}u_2)$	
lequ3_2221 $(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_1)$ C lequ3_2222 $(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2231 $(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ C lequ3_2232 $(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$ C lequ3_2233 $(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_2231 $(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C lequ3_2311 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C lequ3_2312 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C lequ3_2313 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2313 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ C lequ3_2321 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2322 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2323 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2323 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C <		$(\bar{\ell}_2\sigma_{\mu\nu}e_2)\epsilon_{ik}(\bar{q}_1\sigma^{\mu\nu}u_3)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_2 \sigma^{\mu\nu} u_1)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2\sigma_{\mu\nu}e_2)\epsilon_{ik}(\bar{q}_2\sigma^{\mu\nu}u_2)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_2 \sigma^{\mu\nu} u_3)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$		$(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_3 \sigma^{\mu\nu} u_1)$	$^{\mathrm{C}}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$		$(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_3 \sigma^{\mu\nu} u_2)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	=	$(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$	\mathbf{C}
lequ3_2313 $(\ell_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_3)$ C lequ3_2321 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_1)$ C lequ3_2322 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$ C lequ3_2332 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_23111 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$ C lequ3_3112 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C lequ3_3123 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_1)$ C lequ3_3123 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_3131 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_3132 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_3213 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$ C lequ3_3211 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C <td< td=""><td></td><td>$(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$</td><td>$\mathbf{C}$</td></td<>		$(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$	\mathbf{C}
lequ3_2321 $(\ell_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2322 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_2323 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ C lequ3_2331 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$ C lequ3_2332 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$ C lequ3_3111 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$ C lequ3_3112 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C lequ3_3113 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_3)$ C lequ3_3121 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C lequ3_3122 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ C lequ3_3133 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$ C lequ3_3133 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$ C lequ3_3211 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$ C lequ3_3212 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C	lequ3_2313	$(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_3)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2\sigma_{\mu\nu}e_3)\epsilon_{jk}(\bar{q}_2\sigma^{\mu\nu}u_1)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_2 \sigma_{\mu \nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu \nu} u_2)$	\mathbf{C}
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2323	$(\bar{\ell}_2 \sigma_{\mu u} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu u} u_3)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2331	$(\bar{\ell}_2 \sigma_{\mu u} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu u} u_1)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2332	$(ar{\ell}_2\sigma_{\mu u}e_3)\epsilon_{jk}(ar{q}_3\sigma^{\mu u}u_2)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2333	$(\bar{\ell}_2 \sigma_{\mu u} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu u} u_3)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3111	$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3112	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	С
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	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
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3121	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3122	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	\mathbf{C}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3123	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3131	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3132	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3133	$\left(ar{\ell}_3\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3211	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3212	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3213	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	С
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3221		C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3222	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	С
lequ3_3231 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$ C lequ3_3232 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_3233 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$ C	lequ3_3223		
lequ3_3232 $(\ell_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C lequ3_3233 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$ C	lequ3_3231	$\left(ar{\ell}_3\sigma_{\mu u}e_2\right)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	
lequ3_3233 $ \left(\underline{\ell}_3 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\overline{q}_3 \sigma^{\mu\nu} u_3\right) $ C		$\left(\ell_{3}\sigma_{\mu\nu}e_{2}\right)\epsilon_{jk}\left(ar{q}_{3}\sigma^{\mu\nu}u_{2}\right)$	
legu3 3311 $(\bar{\ell}_2\sigma_{\cdots}e_2)\epsilon_{ik}(\bar{q}_1\sigma^{\mu\nu}u_1)$ C	lequ3_3233	$\left(ar{\ell}_3\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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 $\left(\bar{\ell}_3\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)$ C	lequ3_3312	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
lequ3_3313	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)$	C
lequ3_3321	$\left(ar{\ell}_3\sigma_{\mu u}e_3\right)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	\mathbf{C}
lequ3_3322	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_3323	$(\bar{\ell}_3 \sigma_{\mu u} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu u} u_3)$	$^{\mathrm{C}}$
lequ3_3331	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_1 ight)$	\mathbf{C}
lequ3_3332	$\left(ar{\ell}_3\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	\mathbf{C}
lequ3_3333	$(ar{\ell}_3\sigma_{\mu u}e_3)\epsilon_{jk}(ar{q}_3\sigma^{\mu u}u_3)$	$^{\mathrm{C}}$

dB=dL=1

WC name	Operator	Type
duql_1111	$(d_1 C u_1) (q_1 C \ell_1)$	C
duql_1112	$(d_1Cu_1)(q_1C\ell_2)$	\mathbf{C}
duql_1113	$(d_1Cu_1)(q_1C\ell_3)$	C
duql_1121	$(d_1 C u_1) \left(q_2 C \ell_1 \right)$	C
duql_1122	$(d_1 C u_1) \left(q_2 C \ell_2 \right)$	C
duql_1123	$(d_1Cu_1)(q_2C\ell_3)$	C
duql_1131	$(d_1 C u_1) \left(q_3 C \ell_1 \right)$	C
duq1_1132	$(d_1 C u_1) \left(q_3 C \ell_2 \right)$	C
duql_1133	$(d_1Cu_1)(q_3C\ell_3)$	$^{\mathrm{C}}$
duql_1211	$\left(d_1 C u_2\right) \left(q_1 C \ell_1\right)$	$^{\mathrm{C}}$
duql_1212	$(d_1 C u_2) (q_1 C \ell_2)$	$^{\mathrm{C}}$
duql_1213	$(d_1Cu_2)(q_1C\ell_3)$	$^{\mathrm{C}}$
duql_1221	$(d_1 C u_2) (q_2 C \ell_1)$	$^{\mathrm{C}}$
duql_1222	$(d_1 C u_2) (q_2 C \ell_2)$	$^{\mathrm{C}}$
duql_1223	$(d_1 C u_2) (q_2 C \ell_3)$	$^{\mathrm{C}}$
duql_1231	$(d_1 C u_2) (q_3 C \ell_1)$	$^{\mathrm{C}}$
duql_1232	$(d_1Cu_2)(q_3C\ell_2)$	$^{\mathrm{C}}$
duql_1233	$(d_1Cu_2)(q_3C\ell_3)$	$^{\mathrm{C}}$
duql_1311	$(d_1Cu_3)(q_1C\ell_1)$	$^{\mathrm{C}}$
duql_1312	$(d_1Cu_3)(q_1C\ell_2)$	$^{\mathrm{C}}$
duql_1313	$(d_1Cu_3)(q_1C\ell_3)$	$^{\mathrm{C}}$
duql_1321	$(d_1Cu_3)(q_2C\ell_1)$	$^{\mathrm{C}}$
duql_1322	$(d_1Cu_3)(q_2C\ell_2)$	C
duql_1323	$(d_1Cu_3)(q_2C\ell_3)$	$^{\mathrm{C}}$
duql_1331	$(d_1Cu_3)(q_3C\ell_1)$	C
duql_1332	$(d_1Cu_3)(q_3C\ell_2)$	$^{\mathrm{C}}$
duql_1333	$(d_1Cu_3)(q_3C\ell_3)$	$^{\mathrm{C}}$
duql_2111	$(d_2Cu_1)(q_1C\ell_1)$	C
duql_2112	$(d_2Cu_1)(q_1C\ell_2)$	C
duq1_2113	$(d_2Cu_1)(q_1C\ell_3)$	C
duql_2121	$(d_2Cu_1)(q_2C\ell_1)$	$^{\mathrm{C}}$

WC name	Operator	Type
duq1_2122	$\left(d_{2}Cu_{1}\right)\left(q_{2}C\ell_{2}\right)$	С
duq1_2123	$(d_2Cu_1)(q_2C\ell_3)$	$^{\mathrm{C}}$
duq1_2131	$\left(d_{2}Cu_{1}\right)\left(q_{3}C\ell_{1}\right)$	$^{\mathrm{C}}$
duq1_2132	$\left(d_{2}Cu_{1}\right)\left(q_{3}C\ell_{2}\right)$	$^{\mathrm{C}}$
duq1_2133	$(d_2Cu_1)(q_3C\ell_3)$	\mathbf{C}
duq1_2211	$\left(d_{2}Cu_{2}\right)\left(q_{1}C\ell_{1}\right)$	$^{\mathrm{C}}$
duq1_2212	$(d_2Cu_2)(q_1C\ell_2)$	\mathbf{C}
duq1_2213	$(d_2Cu_2)(q_1C\ell_3)$	\mathbf{C}
duq1_2221	$(d_2Cu_2)(q_2C\ell_1)$	\mathbf{C}
duq1_2222	$(d_2Cu_2)(q_2C\ell_2)$	\mathbf{C}
duq1_2223	$(d_2Cu_2)(q_2C\ell_3)$	\mathbf{C}
duq1_2231	$(d_2Cu_2)(q_3C\ell_1)$	\mathbf{C}
duq1_2232	$(d_2Cu_2)(q_3C\ell_2)$	\mathbf{C}
duq1_2233	$(d_2Cu_2)(q_3C\ell_3)$	\mathbf{C}
duq1_2311	$(d_2Cu_3)(q_1C\ell_1)$	\mathbf{C}
duq1_2312	$(d_2Cu_3)(q_1C\ell_2)$	\mathbf{C}
duq1_2313	$(d_2Cu_3)(q_1C\ell_3)$	\mathbf{C}
duq1_2321	$(d_2Cu_3)(q_2C\ell_1)$	\mathbf{C}
duq1_2322	$(d_2Cu_3)(q_2C\ell_2)$	\mathbf{C}
duq1_2323	$(d_2Cu_3)(q_2C\ell_3)$	\mathbf{C}
duq1_2331	$(d_2Cu_3)(q_3C\ell_1)$	\mathbf{C}
duq1_2332	$(d_2Cu_3)(q_3C\ell_2)$	\mathbf{C}
duq1_2333	$(d_2Cu_3)(q_3C\ell_3)$	\mathbf{C}
duq1_3111	$(d_3Cu_1)(q_1C\ell_1)$	\mathbf{C}
duq1_3112	$(d_3Cu_1)(q_1C\ell_2)$	\mathbf{C}
duq1_3113	$(d_3Cu_1)(q_1C\ell_3)$	\mathbf{C}
duq1_3121	$(d_3Cu_1)(q_2C\ell_1)$	\mathbf{C}
duq1_3122	$(d_3Cu_1)(q_2C\ell_2)$	C
duq1_3123	$(d_3Cu_1)(q_2C\ell_3)$	C
duq1_3131	$(d_3Cu_1)(q_3C\ell_1)$	C
duq1_3132	$(d_3Cu_1)(q_3C\ell_2)$	C
duq1_3133	$(d_3Cu_1)(q_3C\ell_3)$	C
duq1_3211	$(d_3Cu_2)(q_1C\ell_1)$	C
duq1_3212	$(d_3Cu_2)(q_1C\ell_2)$	C
duq1_3213	$(d_3Cu_2)(q_1C\ell_3)$	C
duq1_3221	$(d_3Cu_2)(q_2C\ell_1)$	C
duq1_3222	$(d_3Cu_2)(q_2C\ell_2)$	C
duq1_3223	$(d_3Cu_2)(q_2C\ell_3)$	C
duq1_3231	$(d_3Cu_2)(q_3C\ell_1)$	C
duq1_3232	$(d_3Cu_2)(q_3C\ell_2)$	С
duq1_3233	$(d_3Cu_2)(q_3C\ell_3)$	С
duq1_3311	$(d_3Cu_3)(q_1C\ell_1)$	C
duq1_3312	$(d_3Cu_3)(q_1C\ell_2)$	C
duq1_3313	$(d_3Cu_3)(q_1C\ell_3)$	\mathbf{C}

WC name	Operator	Type
duq1_3321	$(d_3Cu_3)(q_2C\ell_1)$	C
duq1_3322	$(d_3Cu_3)(q_2C\ell_2)$	\mathbf{C}
duq1_3323	$(d_3Cu_3)(q_2C\ell_3)$	\mathbf{C}
duq1_3331	$(d_3Cu_3)(q_3C\ell_1)$	\mathbf{C}
duq1_3332	$(d_3Cu_3)(q_3C\ell_2)$	\mathbf{C}
duq1_3333	$(d_3Cu_3)(q_3C\ell_3)$	\mathbf{C}
qque_1111	$\left(q_{1}Cq_{1}\right)\left(u_{1}Ce_{1}\right)$	\mathbf{C}
qque_1112	$\left(q_{1}Cq_{1}\right)\left(u_{1}Ce_{2}\right)$	\mathbf{C}
qque_1113	$(q_1Cq_1)(u_1Ce_3)$	\mathbf{C}
qque_1121	$(q_1Cq_1)(u_2Ce_1)$	\mathbf{C}
qque_1122	$(q_1Cq_1)(u_2Ce_2)$	\mathbf{C}
qque_1123	$(q_1Cq_1)(u_2Ce_3)$	\mathbf{C}
qque_1131	$(q_1Cq_1)\left(u_3Ce_1\right)$	\mathbf{C}
qque_1132	$(q_1Cq_1)(u_3Ce_2)$	\mathbf{C}
qque_1133	$(q_1Cq_1)(u_3Ce_3)$	\mathbf{C}
qque_1211	$(q_1Cq_2)(u_1Ce_1)$	\mathbf{C}
qque_1212	$(q_1Cq_2)(u_1Ce_2)$	\mathbf{C}
qque_1213	$(q_1Cq_2)(u_1Ce_3)$	\mathbf{C}
qque_1221	$(q_1Cq_2)(u_2Ce_1)$	\mathbf{C}
qque_1222	$(q_1Cq_2)(u_2Ce_2)$	\mathbf{C}
qque_1223	$(q_1Cq_2)(u_2Ce_3)$	C
qque_1231	$(q_1Cq_2)(u_3Ce_1)$	C
qque_1232	$(q_1Cq_2)(u_3Ce_2)$	C
qque_1233	$(q_1Cq_2)(u_3Ce_3)$	C
qque_1311	$(q_1Cq_3)(u_1Ce_1)$	C
qque_1312	$(q_1Cq_3)(u_1Ce_2)$	C
qque_1313	$(q_1Cq_3)(u_1Ce_3)$	C
qque_1321	$(q_1Cq_3)(u_2Ce_1)$	C
qque_1322	$(q_1Cq_3)(u_2Ce_2)$	$\stackrel{ ext{C}}{\sim}$
qque_1323	$(q_1Cq_3)(u_2Ce_3)$	C
qque_1331	$(q_1Cq_3)(u_3Ce_1)$	C
qque_1332	$(q_1Cq_3)(u_3Ce_2)$	C
qque_1333	$(q_1Cq_3)(u_3Ce_3)$	C
qque_2211	$(q_2Cq_2)(u_1Ce_1)$	C
qque_2212	$(q_2Cq_2)(u_1Ce_2)$	C
qque_2213	$(q_2Cq_2)(u_1Ce_3)$	C
qque_2221	$(q_2Cq_2)(u_2Ce_1)$	С
qque_2222	$(q_2Cq_2)(u_2Ce_2)$	С
qque_2223	$(q_2Cq_2)(u_2Ce_3)$	С
qque_2231	$(q_2Cq_2)(u_3Ce_1)$	С
qque_2232	$(q_2Cq_2)(u_3Ce_2)$	С
qque_2233	$(q_2Cq_2)(u_3Ce_3)$	С
qque_2311	$(q_2Cq_3)(u_1Ce_1)$	C C
qque_2312	$(q_2Cq_3)(u_1Ce_2)$	C

WC name	Operator	Type
qque_2313	$(q_2Cq_3)(u_1Ce_3)$	С
qque_2321	$(q_2Cq_3)(u_2Ce_1)$	$^{\mathrm{C}}$
qque_2322	$(q_2Cq_3)(u_2Ce_2)$	$^{\mathrm{C}}$
qque_2323	$(q_2Cq_3)(u_2Ce_3)$	$^{\mathrm{C}}$
qque_2331	$\left(q_{2}Cq_{3}\right)\left(u_{3}Ce_{1}\right)$	$^{\mathrm{C}}$
qque_2332	$(q_2Cq_3)(u_3Ce_2)$	$^{\mathrm{C}}$
qque_2333	$(q_2Cq_3)(u_3Ce_3)$	$^{\mathrm{C}}$
qque_3311	$\left(q_3Cq_3\right)\left(u_1Ce_1\right)$	$^{\mathrm{C}}$
qque_3312	$(q_3Cq_3)(u_1Ce_2)$	$^{\mathrm{C}}$
qque_3313	$(q_3Cq_3)(u_1Ce_3)$	$^{\mathrm{C}}$
qque_3321	$(q_3Cq_3)(u_2Ce_1)$	$^{\mathrm{C}}$
qque_3322	$(q_3Cq_3)(u_2Ce_2)$	C
qque_3323	$(q_3Cq_3)(u_2Ce_3)$	C
qque_3331	$\left(q_3Cq_3\right)\left(u_3Ce_1\right)$	C
qque_3332	$(q_3Cq_3)(u_3Ce_2)$	C
qque_3333	$(q_3Cq_3)(u_3Ce_3)$	C
qqql_1111	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{1}C\ell_{1}\right)$	C
qqql_1112	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{1}C\ell_{2}\right)$	C
qqql_1113	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{1}C\ell_{3}\right)$	C
qqql_1121	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{2}C\ell_{1}\right)$	C
qqql_1122	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{2}C\ell_{2}\right)$	C
qqql_1123	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{2}C\ell_{3}\right)$	C
qqql_1131	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{3}C\ell_{1}\right)$	C
qqql_1132	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{3}C\ell_{2}\right)$	C
qqql_1133	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{3}C\ell_{3}\right)$	C
qqql_1211	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{1}C\ell_{1}\right)$	C
qqql_1212	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{1}C\ell_{2}\right)$	C
qqql_1213	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{1}C\ell_{3}\right)$	C
qqql_1221	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{1}\right)$	C
qqql_1222	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{2}\right)$	C
qqq1_1223	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{3}\right)$	C
qqq1_1231	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{3}C\ell_{1}\right)$	C
qqq1_1232	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{3}C\ell_{2}\right)$	C
qqq1_1233	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{3}C\ell_{3}\right)$	C
qqql_1311	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{1}C\ell_{1}\right)$	C
qqql_1312	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{1}C\ell_{2}\right)$	C
qqql_1313	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{1}C\ell_{3}\right)$	C
qqql_1321	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{2}C\ell_{1}\right)$	C
qqql_1322	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{2}C\ell_{2}\right)$	C
qqql_1323	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{2}C\ell_{3}\right)$	C
qqql_1331	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{1}\right)$	C
qqql_1332	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{2}\right)$	C
qqql_1333	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{3}\right)$	C
qqql_2121	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{2}C\ell_{1} ight)$	\mathbf{C}

WC name	Operator	Type
qqq1_2122	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{2}C\ell_{2} ight)$	С
qqql_2123	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1}\right)\left(q_{2}C\ell_{3}\right)$	$^{\mathrm{C}}$
qqq1_2131	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqq1_2132	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqql_2133	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{3} ight)$	\mathbf{C}
qqq1_2221	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{1} ight)$	\mathbf{C}
qqq1_2222	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{2} ight)$	\mathbf{C}
qqq1_2223	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{3} ight)$	\mathbf{C}
qqq1_2231	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{3}C\ell_{1} ight)$	\mathbf{C}
qqq1_2232	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{3}C\ell_{2} ight)$	\mathbf{C}
qqq1_2233	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{3}C\ell_{3} ight)$	\mathbf{C}
qqql_2311	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{1}C\ell_{1} ight)$	\mathbf{C}
qqq1_2312	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{1}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqql_2313	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{1}C\ell_{3} ight)$	$^{\mathrm{C}}$
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	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{2}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqq1_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	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqq1_3132	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqql_3133	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqq1_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	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{2} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqq1_3331	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{3}\right)\left(q_{3}C\ell_{1}\right)$	$^{\mathrm{C}}$
qqq1_3332	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{3} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqq1_3333	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{3} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
duue_1111	$(d_1Cu_1)\left(u_1Ce_1\right)$	\mathbf{C}
duue_1112	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{2}\right)$	\mathbf{C}
duue_1113	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{3}\right)$	\mathbf{C}
duue_1121	$\left(d_{1}Cu_{1}\right)\left(u_{2}Ce_{1}\right)$	\mathbf{C}
duue_1122	$(d_1Cu_1)(u_2Ce_2)$	\mathbf{C}
duue_1123	$\left(d_{1}Cu_{1}\right)\left(u_{2}Ce_{3}\right)$	\mathbf{C}
duue_1131	$(d_1Cu_1)(u_3Ce_1)$	$^{\mathrm{C}}$
duue_1132	$(d_1Cu_1)(u_3Ce_2)$	C
duue_1133	$(d_1Cu_1)(u_3Ce_3)$	C
duue_1211	$(d_1Cu_2)(u_1Ce_1)$	C
duue_1212	$(d_1Cu_2)(u_1Ce_2)$	C
duue_1213	$(d_1Cu_2)(u_1Ce_3)$	C
duue_1221	$(d_1Cu_2)(u_2Ce_1)$	C
duue_1222	$(d_1Cu_2)(u_2Ce_2)$	C
duue_1223	$\left(d_{1}Cu_{2}\right)\left(u_{2}Ce_{3}\right)$	С

WC name	Operator	Type
duue_1231	$(d_1Cu_2)(u_3Ce_1)$	С
duue_1232	$\left(d_{1}Cu_{2}\right)\left(u_{3}Ce_{2}\right)$	\mathbf{C}
duue_1233	$\left(d_{1}Cu_{2}\right)\left(u_{3}Ce_{3}\right)$	\mathbf{C}
duue_1311	$\left(d_{1}Cu_{3}\right)\left(u_{1}Ce_{1}\right)$	\mathbf{C}
duue_1312	$\left(d_{1}Cu_{3}\right)\left(u_{1}Ce_{2}\right)$	\mathbf{C}
duue_1313	$\left(d_{1}Cu_{3}\right)\left(u_{1}Ce_{3}\right)$	\mathbf{C}
duue_1321	$\left(d_{1}Cu_{3}\right)\left(u_{2}Ce_{1}\right)$	\mathbf{C}
duue_1322	$(d_1Cu_3)(u_2Ce_2)$	\mathbf{C}
duue_1323	$(d_1Cu_3)(u_2Ce_3)$	\mathbf{C}
duue_1331	$\left(d_{1}Cu_{3}\right)\left(u_{3}Ce_{1}\right)$	\mathbf{C}
duue_1332	$(d_1Cu_3)(u_3Ce_2)$	\mathbf{C}
duue_1333	$(d_1Cu_3)(u_3Ce_3)$	\mathbf{C}
duue_2111	$\left(d_{2}Cu_{1}\right)\left(u_{1}Ce_{1}\right)$	\mathbf{C}
duue_2112	$\left(d_{2}Cu_{1}\right)\left(u_{1}Ce_{2}\right)$	\mathbf{C}
duue_2113	$\left(d_{2}Cu_{1}\right)\left(u_{1}Ce_{3}\right)$	\mathbf{C}
duue_2121	$\left(d_{2}Cu_{1}\right)\left(u_{2}Ce_{1}\right)$	\mathbf{C}
duue_2122	$\left(d_{2}Cu_{1}\right)\left(u_{2}Ce_{2}\right)$	\mathbf{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	$(d_2Cu_2)(u_1Ce_1)$	\mathbf{C}
duue_2212	$(d_2Cu_2)(u_1Ce_2)$	\mathbf{C}
duue_2213	$(d_2Cu_2)(u_1Ce_3)$	\mathbf{C}
duue_2221	$(d_2Cu_2)(u_2Ce_1)$	\mathbf{C}
duue_2222	$(d_2Cu_2)(u_2Ce_2)$	\mathbf{C}
duue_2223	$(d_2Cu_2)(u_2Ce_3)$	\mathbf{C}
duue_2231	$(d_2Cu_2)(u_3Ce_1)$	\mathbf{C}
duue_2232	$(d_2Cu_2)(u_3Ce_2)$	\mathbf{C}
duue_2233	$(d_2Cu_2)(u_3Ce_3)$	\mathbf{C}
duue_2311	$(d_2Cu_3)(u_1Ce_1)$	\mathbf{C}
duue_2312	$(d_2Cu_3)(u_1Ce_2)$	\mathbf{C}
duue_2313	$(d_2Cu_3)(u_1Ce_3)$	\mathbf{C}
duue_2321	$(d_2Cu_3)(u_2Ce_1)$	\mathbf{C}
duue_2322	$(d_2Cu_3)(u_2Ce_2)$	\mathbf{C}
duue_2323	$(d_2Cu_3)(u_2Ce_3)$	\mathbf{C}
duue_2331	$(d_2Cu_3)(u_3Ce_1)$	С
duue_2332	$(d_2Cu_3)(u_3Ce_2)$	$^{\mathrm{C}}$
duue_2333	$(d_2Cu_3)(u_3Ce_3)$	$^{\mathrm{C}}$
duue_3111	$\left(d_3Cu_1\right)\left(u_1Ce_1\right)$	C
duue_3112	$(d_3Cu_1)(u_1Ce_2)$	C
duue_3113	$(d_3Cu_1)(u_1Ce_3)$	C
duue_3121	$(d_3Cu_1)(u_2Ce_1)$	C
duue_3122	$\left(d_3Cu_1\right)\left(u_2Ce_2\right)$	\mathbf{C}

WC name	Operator	Type
duue_3123	$(d_3Cu_1)(u_2Ce_3)$	C
duue_3131	$(d_3Cu_1)(u_3Ce_1)$	\mathbf{C}
duue_3132	$(d_3Cu_1)(u_3Ce_2)$	$^{\mathrm{C}}$
duue_3133	$(d_3Cu_1)(u_3Ce_3)$	$^{\mathrm{C}}$
duue_3211	$(d_3Cu_2)(u_1Ce_1)$	C
duue_3212	$(d_3Cu_2)(u_1Ce_2)$	$^{\mathrm{C}}$
duue_3213	$(d_3Cu_2)(u_1Ce_3)$	$^{\mathrm{C}}$
duue_3221	$(d_3Cu_2)(u_2Ce_1)$	$^{\mathrm{C}}$
duue_3222	$(d_3Cu_2)(u_2Ce_2)$	$^{\mathrm{C}}$
duue_3223	$(d_3Cu_2)(u_2Ce_3)$	$^{\mathrm{C}}$
duue_3231	$(d_3Cu_2)(u_3Ce_1)$	$^{\mathrm{C}}$
duue_3232	$(d_3Cu_2)(u_3Ce_2)$	$^{\mathrm{C}}$
duue_3233	$(d_3Cu_2)(u_3Ce_3)$	$^{\mathrm{C}}$
duue_3311	$(d_3Cu_3)(u_1Ce_1)$	$^{\mathrm{C}}$
duue_3312	$(d_3Cu_3)(u_1Ce_2)$	$^{\mathrm{C}}$
duue_3313	$(d_3Cu_3)(u_1Ce_3)$	C
duue_3321	$(d_3Cu_3)(u_2Ce_1)$	C
duue_3322	$(d_3Cu_3)(u_2Ce_2)$	C
duue_3323	$(d_3Cu_3)(u_2Ce_3)$	C
duue_3331	$(d_3Cu_3)(u_3Ce_1)$	C
duue_3332	$(d_3Cu_3)(u_3Ce_2)$	\mathbf{C}
duue_3333	$(d_3Cu_3)(u_3Ce_3)$	C

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