## 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	$\epsilon^{IJK}W_{\mu}^{I u}W_{ u}^{J ho}W_{ ho}^{K\mu}$	R
Wtilde	$\epsilon^{IJK}\widetilde{W}_{\mu}^{I u}W_{ u}^{J ho}W_{ ho}^{K\mu}$	R
phi	$\left(arphi^\daggerarphi ight)^3$	R
phiBox	$\left(arphi^\daggerarphi ight)\square\left(arphi^\daggerarphi ight)$	R
phiD	$\left(arphi^\dagger D^\mu arphi ight)^* \left(arphi^\dagger D_\mu arphi ight)$	R
phiG	$\dot{arphi}^\dagger arphi G^A_{\mu u} G^{A\mu u}$	R
phiB	$arphi^\dagger arphi B_{\mu u} B^{\mu u}$	R
phiW	$arphi^\dagger_{\mu u}W^I_{\mu u}W^{I\mu u}$	R
phiWB	$arphi^\dagger  au^I arphi W^I_{\mu u} B^{\mu u}$	R
phiGtilde	$arphi^\dagger arphi \widetilde{G}^A_{\mu u} G^{A\mu u}$	R
phiBtilde	$arphi^\dagger arphi \widetilde{B}_{\mu u} B^{\mu u}$	R
phiWtilde	$arphi^\dagger arphi \widetilde{W}^I_{\mu u} W^{I\mu u}$	R
phiWtildeB	$arphi^\dagger  au^I arphi \widetilde{W}^I_{\mu u} B^{\mu u}$	R
uphi_11	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_1\widetilde{arphi} ight)$	$\mathbf{C}$
uphi_12	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_2\widetilde{arphi} ight)$	$\mathbf{C}$
uphi_13	$\left(arphi^\daggerarphi ight)\left(ar{q}_1u_3\widetilde{arphi} ight)$	$^{\mathrm{C}}$
uphi_21	$\left(arphi^\daggerarphi ight)\left(ar{q}_2u_1\widetilde{arphi} ight)$	C
uphi_22	$\left\langle arphi^{\dagger}arphi ight angle \left(ar{q}_{2}u_{2}\widetilde{arphi} ight)$	$^{\mathrm{C}}$
uphi_23	$\left(arphi_{_{-}}^{\dagger}arphi ight)\left(ar{q}_{2}u_{3}\widetilde{arphi} ight)$	C
uphi_31	$\left(arphi_{1}^{\dagger}arphi ight)\left(ar{q}_{3}u_{1}\widetilde{arphi} ight)$	C
uphi_32	$\left(arphi^\daggerarphi ight)\left(ar{q}_3u_2\widetilde{arphi} ight)$	$\mathbf{C}$

WC name	Operator	Type
uphi_33	$\left(arphi^{\dagger}arphi ight)\left(ar{q}_{3}u_{3}\widetilde{arphi} ight)$	$^{\rm C}$
dphi_11	$\left(arphi^{\dagger}arphi ight)\left(ar{q}_{1}d_{1}arphi ight)$	$\mathbf{C}$
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	$\left(arphi^\daggerarphi ight)\left(ar{q}_2d_1arphi ight)$	$\mathbf{C}$
dphi_22	$\left(arphi^\daggerarphi ight)\left(ar{q}_2d_2arphi ight)$	$\mathbf{C}$
dphi_23	$\left(arphi^\daggerarphi ight)\left(ar{q}_2d_3arphi ight)$	$\mathbf{C}$
dphi_31	$\left(arphi^\daggerarphi ight)\left(ar{q}_3d_1arphi ight)$	$\mathbf{C}$
dphi_32	$\left(arphi^\daggerarphi ight)\left(ar{q}_3d_2arphi ight)$	$\mathbf{C}$
dphi_33	$\left(arphi^\daggerarphi ight)\left(ar{q}_3d_3arphi ight)$	$\mathbf{C}$
ephi_11	$\left(arphi^\daggerarphi ight)\left(ar\ell_1e_1arphi ight)$	$\mathbf{C}$
ephi_12	$\left(arphi^\daggerarphi ight)\left(ar\ell_1e_2arphi ight)$	$\mathbf{C}$
ephi_13	$\left(arphi^\daggerarphi ight)\left(ar\ell_1e_3arphi ight)$	$\mathbf{C}$
ephi_21	$\left(arphi^\daggerarphi ight)\left(ar\ell_2e_1arphi ight)$	$\mathbf{C}$
ephi_22	$\left(arphi^\daggerarphi ight)\left(ar\ell_2e_2arphi ight)$	$\mathbf{C}$
ephi_23	$\left(arphi^\daggerarphi ight)\left(ar\ell_2e_3arphi ight)$	$\mathbf{C}$
ephi_31	$\left(arphi^\daggerarphi ight)\left(ar\ell_3e_1arphi ight)$	$\mathbf{C}$
ephi_32	$\left(arphi^\daggerarphi ight)\left(ar{\ell}_3e_2arphi ight)$	$\mathbf{C}$
ephi_33	$\left(arphi^\daggerarphi ight)\left(ar\ell_3e_3arphi ight)$	$\mathbf{C}$
eW_11	$\left(ar{\ell}_1\sigma^{\mu u}e_1 ight) au^Iarphi W^I_{\mu u}$	$\mathbf{C}$
eW_12	$\left(ar{\ell}_1\sigma^{\mu u}e_2 ight) au^Iarphi W^I_{\mu u}$	$\mathbf{C}$
eW_13	$\left(ar{\ell}_1\sigma^{\mu u}e_3 ight) au^Iarphi W^I_{\mu u}$	$\mathbf{C}$
eW_21	$\left( \overline{\ell}_2 \sigma^{\mu  u} e_1  ight)  au^I arphi W^I_{\mu  u}$	$\mathbf{C}$
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	$\left(ar{\ell}_3\sigma^{\mu u}e_1 ight) au^Iarphi W^I_{\mu u}$	$\mathbf{C}$
eW_32	$\left(ar{\ell}_3\sigma^{\mu u}e_2 ight) au^Iarphi W^I_{\mu u}$	$\mathbf{C}$
eW_33	$(ar{\ell}_3\sigma^{\mu u}e_3) au^Iarphi W^I_{\mu u}$	$\mathbf{C}$
eB_11	$\left(ar{\ell}_1\sigma^{\mu u}e_1 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_12	$\left(ar{\ell}_1\sigma^{\mu u}e_2 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_13	$\left(ar{\ell}_1\sigma^{\mu u}e_3 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_21	$\left(ar{\ell}_2\sigma^{\mu u}e_1 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_22	$\left(ar{\ell}_2\sigma^{\mu u}e_2 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_23	$\left(ar{\ell}_2\sigma^{\mu u}e_3 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_31	$\left(ar{\ell}_3\sigma^{\mu u}e_1 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_32	$\left(ar{\ell}_3\sigma^{\mu u}e_2 ight)arphi B_{\mu u}$	$\mathbf{C}$
eB_33	$(\ell_3 \sigma^{\mu\nu} e_3) \varphi B_{\mu\nu}$	$\mathbf{C}$
uG_11	$(\bar{q}_1 \sigma^{\mu\nu} T^A u_1)  \widetilde{\varphi} G^A_{\mu\nu}$	$\mathbf{C}$
uG_12	$\left\langle ar{q}_1 \sigma^{\mu  u} T^A u_2 \right\rangle \widetilde{arphi} G^{\widetilde{A}}_{\mu  u}$	$\mathbf{C}$
uG_13	$(\bar{q}_1 \sigma^{\mu\nu} T^A u_3)  \widetilde{\varphi} G^A_{\mu\nu}$	$\mathbf{C}$
uG_21	$(\bar{q}_2\sigma^{\mu\nu}T^Au_1)\widetilde{\varphi}G^A_{\mu\nu}$	$\mathbf{C}$
uG_22	$\left\langle ar{q}_2 \sigma^{\mu  u} T^A u_2 \right angle \widetilde{arphi} G^A_{\mu  u}$	С

WC name	Operator	Type
uG_23	$\left(\bar{q}_2\sigma^{\mu\nu}T^A_{}u_3\right)\widetilde{\varphi}G^A_{\mu\nu}$	С
uG_31	$\left(\bar{q}_3\sigma^{\mu\nu}T^Au_1\right)\widetilde{\varphi}G^A_{\mu\nu}$	$\mathbf{C}$
uG_32	$\left(\bar{q}_3\sigma^{\mu\nu}T^Au_2\right)\widetilde{\varphi}G^A_{\mu\nu}$	$\mathbf{C}$
uG_33	$\left(ar{q}_3\sigma^{\mu u}T^Au_3 ight)\widetilde{arphi}G^A_{\mu u}$	$\dot{\mathbf{C}}$
uW_11	$(\bar{a}_1 \sigma^{\mu\nu} u_1) \tau^I \widetilde{\phi} W^I$	$\mathbf{C}$
uW_12	$(\bar{q}_1\sigma^{\mu\nu}u_2) au^T\widetilde{arphi}W^I_{\mu u}$	$\mathbf{C}$
uW_13	$(\bar{q}_1\sigma^{\mu\nu}u_3) au^I\widetilde{arphi}W^{\mu\nu}_{\mu u}$	$\mathbf{C}$
_ uW_21	$(\bar{q}_2\sigma^{\mu\nu}u_1) au^I\widetilde{arphi}W^{\mu\nu}_{\mu u}$	$\mathbf{C}$
_ uW_22	$(\bar{q}_2\sigma^{\mu\nu}u_2) au^I\widetilde{arphi}W^I_{\mu u}$	$\mathbf{C}$
_ uW_23	$(\bar{q}_2\sigma^{\mu\nu}u_3) au^I\widetilde{arphi}W^{\mu\nu}_{\mu u}$	$\mathbf{C}$
_ uW_31	$(\bar{q}_3\sigma^{\mu\nu}u_1)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	$\mathbf{C}$
_ uW_32	$(\bar{q}_3\sigma^{\mu\nu}u_2) au^I\widetilde{arphi}W^{\mu\nu}_{\mu u}$	$\mathbf{C}$
_ uW_33	$(\bar{q}_3\sigma^{\mu\nu}u_3) au^I\widetilde{\varphi}W^I_{\mu u}$	$\mathbf{C}$
uB_11	$(\bar{q}_1\sigma^{\mu\nu}u_1)\widetilde{\varphi}B_{\mu\nu}$	$\mathbf{C}$
uB_12	$(\bar{q}_1\sigma^{\mu u}u_2)\widetilde{arphi}B_{\mu u}$	$\mathbf{C}$
uB_13	$(\bar{q}_1\sigma^{\mu\nu}u_3)\widetilde{\varphi}B_{\mu\nu}$	$\mathbf{C}$
uB_21	$(\bar{q}_2\sigma^{\mu\nu}u_1)\widetilde{\varphi}B_{\mu\nu}$	$\mathbf{C}$
uB_22	$(\bar{q}_2\sigma^{\mu\nu}u_2)\widetilde{\varphi}B_{\mu\nu}$	$\mathbf{C}$
uB_23	$(\bar{q}_2\sigma^{\mu u}u_3)\widetilde{\varphi}B_{\mu u}$	$\mathbf{C}$
uB_31	$(\bar{q}_3\sigma^{\mu\nu}u_1)\widetilde{\varphi}B_{\mu\nu}$	$\mathbf{C}$
uB_32	$(\bar{q}_3 \sigma^{\mu \nu} u_2)  \widetilde{\varphi} B_{\mu \nu}$	$^{\mathrm{C}}$
uB_33	$(\bar{q}_3\sigma^{\mu\nu}u_3)\widetilde{\varphi}B_{\mu\nu}$	$\mathbf{C}$
dG_11	$\left(ar{q}_1\sigma^{\mu u}T^Ad_1 ight)arphi G^A_{\mu u}$	$\mathbf{C}$
dG_12	$\left(ar{q}_1\sigma^{\mu u}T^Ad_2 ight)arphi G^A_{\mu u}$	$\mathbf{C}$
dG_13	$\left(\bar{q}_1\sigma^{\mu u}T^Ad_3\right)arphi G^A_{\mu u}$	$\mathbf{C}$
dG_21	$\left(\bar{q}_2\sigma^{\mu\nu}T^Ad_1\right)\varphi G_{\mu\nu}^A$	$\mathbf{C}$
dG_22	$\left\langle ar{q}_2 \sigma^{\mu  u} T^A d_2 \right\rangle arphi G^{\widetilde{A}}_{\mu  u}$	$\mathbf{C}$
dG_23	$\left(\bar{q}_2\sigma^{\mu\nu}T^Ad_3\right)arphi G_{\mu u}^A$	$\mathbf{C}$
dG_31	$\left(\bar{q}_3\sigma^{\mu\nu}T^Ad_1\right)\varphi G_{\mu\nu}^A$	$\mathbf{C}$
dG_32	$\left(\bar{q}_3\sigma^{\mu\nu}T^Ad_2\right)arphi G_{\mu u}^A$	$\mathbf{C}$
dG_33	$\left(\bar{q}_3\sigma^{\mu\nu}T^Ad_3\right)arphi G^{\widetilde{A}}_{\mu u}$	$\mathbf{C}$
dW_11	$(ar{q}_1\sigma^{\mu u}d_1) au^I_{}arphi W^I_{\mu u}$	$\mathbf{C}$
dW_12	$(ar{q}_1\sigma^{\mu u}d_2) au^I_{}arphi W^I_{\mu u}$	$\mathbf{C}$
dW_13	$(ar{q}_1\sigma^{\mu u}d_3) au^Iarphi W^{II}_{\mu u}$	$\mathbf{C}$
dW_21	$(ar{q}_2\sigma^{\mu u}d_1) au^I_{\ \mu u}$	$\mathbf{C}$
dW_22	$(\bar{q}_2\sigma^{\mu\nu}d_2) au^I \varphi W^I_{\mu u}$	С
dW_23	$(ar{q}_2\sigma^{\mu u}d_3) au^I_{\mu u}$	$\mathbf{C}$
dW_31	$(ar{q}_3\sigma^{\mu u}d_1) au^I_{}arphi W^I_{\mu u}$	$\mathbf{C}$
dW_32	$(ar{q}_3\sigma^{\mu u}d_2) au^I_{\ \mu u}$	$\mathbf{C}$
dW_33	$(\bar{q}_3\sigma^{\mu u}d_3) au^Iarphi W^I_{\mu u}$	C
dB_11	$(\bar{q}_1 \sigma^{\mu\nu} d_1) \varphi B_{\mu\nu}$	C
dB_12	$(\bar{q}_1 \sigma^{\mu\nu} d_2) \varphi B_{\mu\nu}$	C
dB_13	$(\bar{q}_1 \sigma^{\mu\nu} d_3) \varphi B_{\mu\nu}$	$\mathbf{C}$

WC name	Operator	Type
dB_21	$(\bar{q}_2\sigma^{\mu u}d_1)arphi B_{\mu u}$	C
dB_22	$(\bar{q}_2\sigma^{\mu\nu}d_2)\varphi B_{\mu\nu}$	C
dB_23	$(\bar{q}_2\sigma^{\mu\nu}d_3)\varphi B_{\mu\nu}$	C
dB_31	$(\bar{q}_3\sigma^{\mu\nu}d_1)\varphi B_{\mu\nu}$	C C
dB_32	$(\bar{q}_3\sigma^{\mu\nu}d_2)\varphi B_{\mu\nu}$	C
dB_33	$(\bar{q}_3\sigma^{\mu\nu}d_3)\varphi B_{\mu\nu}$	C
phil1_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{\ell}_1 \gamma^\mu \ell_1 ight)$	R
phil1_12	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{\ell}_{1}\gamma^{\mu}\ell_{2} ight)$	$\mathbf{C}$
phil1_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{\ell}_{1}\gamma^{\mu}\ell_{3} ight)$	$\mathbf{C}$
phil1_22	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{\ell}_{2}\gamma^{\mu}\ell_{2} ight)$	R
phil1_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{\ell}_{2}\gamma^{\mu}\ell_{3} ight)$	$\mathbf{C}$
phil1_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{\ell}_{3}\gamma^{\mu}\ell_{3} ight)$	R
phil3_11	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight)\left(ar{\ell}_{1} au^{I}\gamma^{\mu}\ell_{1} ight)$	R
phil3_12	$\left(arphi^{}_DiD^I_{\mu}arphi ight)\left(ar{\ell}_1 au^I\gamma^{\mu}\ell_2 ight)$	$\mathbf{C}$
phil3_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight)\left(ar{\ell}_{1} au^{I}\gamma^{\mu}\ell_{3} ight)$	$\mathbf{C}$
phi13_22	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight)\left(ar{\ell}_{2} au^{I}\gamma^{\mu}\ell_{2} ight)$	R
phil3_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight)\left(ar{\ell}_{2} au^{I}\gamma^{\mu}\ell_{3} ight)$	$\mathbf{C}$
phi13_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight)\left(ar{\ell}_{3} au^{I}\gamma^{\mu}\ell_{3} ight)$	R
phie_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{e}_1 \gamma^\mu e_1 ight)$	R
phie_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{e}_1 \gamma^\mu e_2 ight)$	C
phie_13	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{e}_1 \gamma^\mu e_3 ight)$	C
phie_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{e}_2 \gamma^\mu e_2)$	R
phie_23	$\begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{e}_{2} \gamma^{\mu} e_{2})$ $\begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{e}_{2} \gamma^{\mu} e_{3})$ $\begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{e}_{3} \gamma^{\mu} e_{3})$ $\begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{1} \gamma^{\mu} q_{1})$	C
phie_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{e}_{3}\gamma^{\mu}e_{3} ight)$	R
phiq1_11	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{1}\gamma^{\mu}q_{1} ight)$	R

WC name	Operator	Type
phiq1_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{q}_1 \gamma^\mu q_2)$	$\mathbf{C}$
phiq1_13	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight angle \left(ar{q}_{1}\gamma^{\mu}q_{3} ight)$	$\mathbf{C}$
phiq1_22	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{2}\gamma^{\mu}q_{2} ight)$	R
phiq1_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{2}\gamma^{\mu}q_{3} ight)$	$\mathbf{C}$
phiq1_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{q}_{3}\gamma^{\mu}q_{3} ight)$	R
phiq3_11	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight)\left(ar{q}_{1} au^{I}\gamma^{\mu}q_{1} ight)$	R
phiq3_12	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight)\left(ar{q}_{1} au^{I}\gamma^{\mu}q_{2} ight)$	C
phiq3_13	$egin{aligned} \left(arphi^{\prime\prime}iD_{\mu}^{\mu}arphi ight)\left(q_{1} au^{\prime\prime}\gamma^{\mu}q_{2} ight) \ \left(arphi^{\dagger}iD_{\mu}^{\prime}arphi ight)\left(ar{q}_{1} au^{I}\gamma^{\mu}q_{3} ight) \ \left(arphi^{\dagger}iD_{\mu}^{\prime}arphi ight)\left(ar{q}_{2} au^{I}\gamma^{\mu}q_{2} ight) \end{aligned}$	$\mathbf{C}$
phiq3_22	$\left(arphi^{}_{D}\overset{\leftrightarrow}{_{\mu}}arphi ight)\left(ar{q}_{2} au^{I}\gamma^{\mu}q_{2} ight)$	R
phiq3_23	$\left\langle arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}^{I}arphi ight angle \left(ar{q}_{2} au^{I}\gamma^{\mu}q_{3} ight)$	$\mathbf{C}$
phiq3_33	$\begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{2} \tau^{I} \gamma^{\mu} q_{3})$ $\begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{q}_{3} \tau^{I} \gamma^{\mu} q_{3})$	R
phiu_11	$\left(\varphi^{\dagger}i\stackrel{\leftrightarrow}{D}_{\mu}\varphi\right)(\bar{u}_{1}\gamma^{\mu}u_{1})$	R
phiu_12	$\left( arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight) \left( ar{u}_{1}\gamma^{\mu}u_{2} ight)$	$\mathbf{C}$
phiu_13	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)\left(ar{u}_{1}\gamma^{\mu}u_{3} ight)$	$\mathbf{C}$
phiu_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) (ar{u}_2 \gamma^\mu u_2)$	R
phiu_23	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{2}\gamma^{\mu}u_{3})$	$\mathbf{C}$
phiu_33	$\left(arphi^{\dagger}i\overset{\leftrightarrow}{D}_{\mu}arphi ight)(ar{u}_{3}\gamma^{\mu}u_{3})$	R
phid_11	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_1 \gamma^\mu d_1 ight)$	R
phid_12	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_1 \gamma^\mu d_2 ight)$	C
phid_13	$ \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}) \\ \begin{pmatrix} \varphi^{\dagger} i \overset{\leftrightarrow}{D}_{\mu} \varphi \end{pmatrix} (\bar{d}_{2} \gamma^{\mu} d_{3}) \end{pmatrix} $	$^{\mathrm{C}}$
phid_22	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_2 \gamma^\mu d_2 ight)$	R
phid_23	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_2 \gamma^\mu d_3 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
phid_33	$\left(arphi^\dagger i \overset{\leftrightarrow}{D}_\mu arphi ight) \left(ar{d}_3 \gamma^\mu d_3 ight)$	R
phiud_11	$(\widetilde{\varphi}^{\dagger}iD_{\mu}\varphi)'(\bar{u}_{1}\gamma^{\mu}d_{1})$	$^{\mathrm{C}}$
phiud_12	$(\widetilde{arphi}^\dagger i D_\mu arphi) (ar{u}_1 \gamma^\mu d_2)$	$\mathbf{C}$
phiud_13	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{1}\gamma^{\mu}d_{3} ight)$	$\mathbf{C}$
phiud_21	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{2}\gamma^{\mu}d_{1} ight)$	$^{\mathrm{C}}$
phiud_22	$\left(\widetilde{arphi}^{\dagger}iD_{\mu}arphi ight)\left(ar{u}_{2}\gamma^{\mu}d_{2} ight)$	$\mathbf{C}$
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	$\left( ar{arphi}^\dagger i D_\mu arphi  ight) \left( ar{u}_3 \gamma^\mu d_3  ight)$	$^{\mathrm{C}}$
11_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_1\gamma^\mu\ell_1 ight)$	${ m R}$
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	$\left( \ell_1 \gamma_\mu \ell_1  ight) \left( \ell_2 \gamma^\mu \ell_2  ight)$	R
11_1123	$\left( ar{\ell}_1 \gamma_\mu \ell_1  ight) \left( ar{\ell}_2 \gamma^\mu \ell_3  ight)$	$^{\mathrm{C}}$
11_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	R
11_1212	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_1\gamma^\mu\ell_2 ight)$	$^{\mathrm{C}}$
11_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_1\gamma^\mu\ell_3 ight)$	$^{\mathrm{C}}$
11_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_1 ight)$	R
11_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_2 ight)$	C
11_1223	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_3 ight)$	С
11_1231	$\left( ar{\ell}_1 \gamma_\mu \ell_2  ight) \left( ar{\ell}_3 \gamma^\mu \ell_1  ight)$	$^{\mathrm{C}}$
11_1232	$\left( \ell_{1}\gamma_{\mu}\ell_{2} ight) \left( \ell_{3}\gamma^{\mu}\ell_{2} ight)$	$^{\mathrm{C}}$
11_1233	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{\ell}_3\gamma^\mu\ell_3 ight)$	С
11_1313	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_1\gamma^\mu\ell_3 ight)$	C
11_1322	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_2\gamma^\mu\ell_2 ight)$	C
11_1323	$\left( \ell_{1}\gamma_{\mu}\ell_{3} ight) \left( \ell_{2}\gamma^{\mu}\ell_{3} ight)$	$^{\mathrm{C}}$
11_1331	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{\ell}_3\gamma^\mu\ell_1 ight)$	R
11_1332	$\left(ar{\ell}_{1}\gamma_{\mu}\ell_{3} ight)\left(ar{\ell}_{3}\gamma^{\mu}\ell_{2} ight)$	C
11_1333	$\left(ar{\ell}_{1}\gamma_{\mu}\ell_{3} ight)\left(ar{\ell}_{3}\gamma^{\mu}\ell_{3} ight)$	C
11_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_2 ight)$	R
11_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{\ell}_2\gamma^\mu\ell_3 ight)$	C
11_2233	$\left(ar{\ell}_{2}\gamma_{\mu}\ell_{2} ight)\left(ar{\ell}_{3}\gamma^{\mu}\ell_{3} ight)$	R
11_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{\ell}_2\gamma^\mu\ell_3 ight)$	$\mathbf{C}$
11_2332	$\left( \ell_{2}\gamma_{\mu}\ell_{3} \right) \left( \ell_{3}\gamma^{\mu}\ell_{2} \right)$	R
11_2333	$(ar{\ell}_2\gamma_\mu\ell_3)(ar{\ell}_3\gamma^\mu\ell_3)$	С
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	$(\bar{q}_1\gamma_\mu q_1)(\bar{q}_1\gamma^\mu q_2)$	С
qq1_1113	$(\bar{q}_1\gamma_\mu q_1)(\bar{q}_1\gamma^\mu q_3)$	С
qq1_1122	$(\bar{q}_1\gamma_\mu q_1)(\bar{q}_2\gamma^\mu q_2)$	R
qq1_1123	$\left(\bar{q}_1\gamma_{\mu}q_1\right)\left(\bar{q}_2\gamma^{\mu}q_3\right)$	С

WC name	Operator	Type
qq1_1133	$\left(ar{q}_1\gamma_\mu q_1 ight)\left(ar{q}_3\gamma^\mu q_3 ight)$	R
qq1_1212	$\left(ar{q}_1\gamma_\mu q_2 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$\mathbf{C}$
qq1_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_1\gamma^{\mu}q_3 ight)$	$\mathbf{C}$
qq1_1221	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_1 ight)$	$\mathbf{R}$
qq1_1222	$(ar{q}_1\gamma_\mu q_2)(ar{q}_2\gamma^\mu q_2)$	$\mathbf{C}$
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	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_3\gamma^{\mu}q_2 ight)$	$\mathbf{C}$
qq1_1233	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	$\mathbf{C}$
qq1_1313	$\left(ar{q}_1\gamma_\mu q_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$\mathbf{C}$
qq1_1322	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	$\mathbf{C}$
qq1_1323	$(ar{q}_1\gamma_\mu q_3)(ar{q}_2\gamma^\mu q_3)$	$\mathbf{C}$
qq1_1331	$\left(ar{q}_1\gamma_\mu q_3 ight)\left(ar{q}_3\gamma^\mu q_1 ight)$	$\mathbf{R}$
qq1_1332	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_2 ight)$	$\mathbf{C}$
qq1_1333	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	$\mathbf{C}$
qq1_2222	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_2 ight)$	$\mathbf{R}$
qq1_2223	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	$\mathbf{C}$
qq1_2233	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	R
qq1_2323	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{q}_2\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_2332	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_2 ight)$	$\mathbf{R}$
qq1_2333	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	$^{\mathrm{C}}$
qq1_3333	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{q}_3\gamma^{\mu}q_3 ight)$	R
qq3_1111	$\left(ar{q}_{1}\gamma_{\mu} au^{I}q_{1} ight)\left(ar{q}_{1}\gamma^{\mu} au^{I}q_{1} ight)$	$\mathbf{R}$
qq3_1112	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	С
qq3_1113	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	С
qq3_1122	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	R
qq3_1123	$\left( ar{q}_1 \gamma_\mu  au^I q_1 \right) \left( ar{q}_2 \gamma^\mu  au^I q_3 \right)$	$\mathbf{C}$
qq3_1133	$\left(ar{q}_1\gamma_\mu au^Iq_1 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
qq3_1212	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$\mathbf{C}$
qq3_1213	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
qq3_1221	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	$\mathbf{R}$
qq3_1222	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	$\mathbf{C}$
qq3_1223	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
qq3_1231	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	$\mathbf{C}$
qq3_1232	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$\mathbf{C}$
qq3_1233	$\left(ar{q}_1\gamma_\mu au^Iq_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
qq3_1313	$\left(ar{q}_1\gamma_\mu au^I_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{$	$\mathbf{C}$
qq3_1322	$\left(ar{q}_1\gamma_\mu au^I_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{$	$\mathbf{C}$
qq3_1323	$\left(ar{q}_1\gamma_{\mu} au^I_{_{_{_{I}}}}q_3 ight)\left(ar{q}_2\gamma^{\mu} au^I_{_{_{_{_{_{_{I}}}}}}}q_3 ight)$	$\mathbf{C}$
qq3_1331	$\left(\bar{q}_1\gamma_\mu au^I_{q_3}\right)\left(\bar{q}_3\gamma^\mu au^I_{q_1}\right)$	R
qq3_1332	$\left(ar{q}_1\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$\stackrel{ ext{C}}{\sim}$
qq3_1333	$\left(\bar{q}_1\gamma_\mu au^I_{q_3}\right)\left(\bar{q}_3\gamma^\mu au^I_{q_3}\right)$	$\mathbf{C}$
qq3_2222	$\left(ar{q}_2\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	$\mathbf{R}$
qq3_2223	$\left(ar{q}_2\gamma_\mu au^Iq_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	С

WC name	Operator	Type
qq3_2233	$\left(ar{q}_2\gamma_\mu au^Iq_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
qq3_2323	$\left(ar{q}_2\gamma_\mu au^Iq_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
qq3_2332	$\left(ar{q}_2\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	R
qq3_2333	$\left(ar{q}_{2}\gamma_{\mu} au^{I}_{q_{3}} ight)\left(ar{q}_{3}\gamma^{\mu} au^{I}_{q_{3}} ight)$	$\mathbf{C}$
qq3_3333	$\left(ar{q}_3\gamma_\mu au^Iq_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
lq1_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	R
lq1_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$\mathbf{C}$
lq1_1113	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$\mathbf{C}$
lq1_1122	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	R
lq1_1123	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{q}_2\gamma^\mu q_3)$	$\mathbf{C}$
lq1_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1\right)\left(ar{q}_3\gamma^\mu q_3\right)$	R
lq1_1211	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	$\mathbf{C}$
lq1_1212	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$\mathbf{C}$
lq1_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$\mathbf{C}$
lq1_1221	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_1 ight)$	$\mathbf{C}$
lq1_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	$\mathbf{C}$
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	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{q}_3\gamma^\mu q_3 ight)$	$\mathbf{C}$
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	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_1 ight)$	$\mathbf{C}$
lq1_1332	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_2 ight)$	$\mathbf{C}$
lq1_1333	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_3 ight)$	$\mathbf{C}$
lq1_2211	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	R
lq1_2212	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$\mathbf{C}$
lq1_2213	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$\mathbf{C}$
lq1_2222	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	R
lq1_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	$\mathbf{C}$
lq1_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{q}_3\gamma^\mu q_3 ight)$	R
lq1_2311	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_1 ight)$	$\mathbf{C}$
lq1_2312	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_2 ight)$	$\mathbf{C}$
lq1_2313	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	$\mathbf{C}$
lq1_2321	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_1 ight)$	$\mathbf{C}$
lq1_2322	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_2 ight)$	$\mathbf{C}$
lq1_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_2\gamma^\mu q_3 ight)$	$\mathbf{C}$
lq1_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_1 ight)$	С

WC name	Operator	Type
lq1_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_2 ight)$	С
lq1_2333	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{q}_3\gamma^\mu q_3 ight)$	$^{\mathrm{C}}$
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	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{q}_1\gamma^\mu q_3 ight)$	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	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1113	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
lq3_1122	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	R
lq3_1123	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1133	$\left(ar{\ell}_1\gamma_\mu au^I\ell_1 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
lq3_1211	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_1212	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1213	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1221	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_1222	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
1q3_1223	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
lq3_1231	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	$\mathbf{C}$
lq3_1232	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_1233	$\left(ar{\ell}_1\gamma_\mu au^I\ell_2 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
lq3_1311	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	$\mathbf{C}$
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	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
lq3_1321	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	$\mathbf{C}$
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	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	$\mathbf{C}$
lq3_1332	$\left(ar{\ell}_1\gamma_{\mu} au^I\ell_3 ight)\left(ar{q}_3\gamma^{\mu} au^I_{}q_2 ight)$	$\mathbf{C}$
lq3_1333	$\left(ar{\ell}_1\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^I_{\_}q_3 ight)$	$\mathbf{C}$
lq3_2211	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	R
lq3_2212	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$\mathbf{C}$
lq3_2213	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
1q3_2222	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	R
1q3_2223	$\left(ar{\ell}_2\gamma_\mu au^I\ell_2 ight)\left(ar{q}_2\gamma^\mu au^I_{}q_3 ight)$	$\mathbf{C}$
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	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$
lq3_2312	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_2 ight)$	$^{\mathrm{C}}$
lq3_2313	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_1\gamma^\mu au^Iq_3 ight)$	$^{\mathrm{C}}$
1q3_2321	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_1 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
1q3_2322	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_2 ight)$	С
1q3_2323	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_2\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
lq3_2331	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_1 ight)$	$\mathbf{C}$
1q3_2332	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_2 ight)$	$\mathbf{C}$
1q3_2333	$\left(ar{\ell}_2\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	$\mathbf{C}$
lq3_3311	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_1\gamma^\mu au^Iq_1)$	R
1q3_3312	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_1\gamma^\mu au^Iq_2)$	$\mathbf{C}$
lq3_3313	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_1\gamma^\mu au^Iq_3)$	$\mathbf{C}$
1q3_3322	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_2\gamma^\mu au^Iq_2)$	R
1q3_3323	$(ar{\ell}_3\gamma_\mu au^I\ell_3)(ar{q}_2\gamma^\mu au^Iq_3)$	$\mathbf{C}$
1q3_3333	$\left(ar{\ell}_3\gamma_\mu au^I\ell_3 ight)\left(ar{q}_3\gamma^\mu au^Iq_3 ight)$	R
ee_1111	$(ar{e}_1\gamma_\mu e_1)(ar{e}_1\gamma^\mu e_1)$	R
ee_1112	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	$\mathbf{C}$
ee_1113	$(ar{e}_1\gamma_{\mu}e_1)(ar{e}_1\gamma^{\mu}e_3)$	$\mathbf{C}$
ee_1122	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
ee_1123	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	$^{\mathrm{C}}$
ee_1133	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
ee_1212	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	С
ee_1213	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	$^{\mathrm{C}}$
ee_1222	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	$\mathbf{C}$
ee_1223	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
ee_1232	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_3\gamma^{\mu}e_2 ight)$	$\mathbf{C}$
ee_1233	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
ee_1313	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
ee_1323	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
ee_1333	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
ee_2222	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
ee_2223	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	C
ee_2233	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
ee_2323	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	C
ee_2333	$(ar{e}_2\gamma_\mu e_3)(ar{e}_3\gamma^\mu e_3)$	C
ee_3333	$(ar{e}_3\gamma_\mu e_3)(ar{e}_3\gamma^\mu e_3)$	R
uu_1111	$(ar{u}_1\gamma_\mu u_1)(ar{u}_1\gamma^\mu u_1)$	R
uu_1112	$(ar{u}_1\gamma_\mu u_1)(ar{u}_1\gamma^\mu u_2)$	C
uu_1113	$(\bar{u}_1\gamma_\mu u_1)(\bar{u}_1\gamma^\mu u_3)$	C
uu_1122	$(ar{u}_1\gamma_\mu u_1)(ar{u}_2\gamma^\mu u_2)$	R
uu_1123	$(ar{u}_1\gamma_\mu u_1)(ar{u}_2\gamma^\mu u_3)$	С
uu_1133	$(ar{u}_1\gamma_\mu u_1)(ar{u}_3\gamma^\mu u_3)$	R
uu_1212	$(ar{u}_1\gamma_\mu u_2)(ar{u}_1\gamma^\mu u_2)$	C
uu_1213	$(ar{u}_1\gamma_\mu u_2)(ar{u}_1\gamma^\mu u_3)$	С
uu_1221	$(ar{u}_1\gamma_\mu u_2)(ar{u}_2\gamma^\mu u_1)$	R
uu_1222	$(ar{u}_1\gamma_\mu u_2)(ar{u}_2\gamma^\mu u_2)$	C
uu_1223	$\left(\bar{u}_1\gamma_{\mu}u_2\right)\left(\bar{u}_2\gamma^{\mu}u_3\right)$	$^{\mathrm{C}}$

WC name	Operator	Type
uu_1231	$(\bar{u}_1\gamma_\mu u_2)(\bar{u}_3\gamma^\mu u_1)$	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	$\left(\bar{u}_1\gamma_{\mu}u_3\right)\left(\bar{u}_1\gamma^{\mu}u_3\right)$	$\mathbf{C}$
uu_1322	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
uu_1323	$\left(\bar{u}_1\gamma_{\mu}u_3\right)\left(\bar{u}_2\gamma^{\mu}u_3\right)$	$^{\mathrm{C}}$
uu_1331	$\left(ar{u}_1\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_1 ight)$	R
uu_1332	$\left(\bar{u}_1\gamma_{\mu}u_3\right)\left(\bar{u}_3\gamma^{\mu}u_2\right)$	$\mathbf{C}$
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	$\left(ar{u}_2\gamma_{\mu}u_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
uu_2233	$\left(ar{u}_2\gamma_{\mu}u_2 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	R
uu_2323	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
uu_2332	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	${ m R}$
uu_2333	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
uu_3333	$\left(ar{u}_3\gamma_{\mu}u_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	${ m R}$
dd_1111	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
dd_1112	$\left(ar{d}_1\gamma_{\mu}d_1 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
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	$\left(ar{d}_1\gamma_\mu d_1 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	C
dd_1133	$\left(ar{d}_1\gamma_\mu d_1 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
dd_1212	$(ar{d}_1\gamma_\mu d_2) (ar{d}_1\gamma^\mu d_2)$	$\mathbf{C}$
dd_1213	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
dd_1221	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_2\gamma^\mu d_1 ight)$	R
dd_1222	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	$\mathbf{C}$
dd_1223	$\left(ar{d}_1\gamma_\mu d_2\right)\left(ar{d}_2\gamma^\mu d_3\right)$	$^{\mathrm{C}}$
dd_1231	$\left(ar{d}_1\gamma_\mu d_2\right)\left(ar{d}_3\gamma^\mu d_1\right)$	$^{\mathrm{C}}$
dd_1232	$\left(ar{d}_1\gamma_\mu d_2 ight)\left(ar{d}_3\gamma^\mu d_2 ight)$	$\dot{ ext{C}}$
dd_1233	$(ar{d}_1\gamma_\mu d_2) (ar{d}_3\gamma^\mu d_3)$	$\dot{ ext{C}}$
dd_1313	$(ar{d}_1\gamma_\mu d_3) \ (ar{d}_1\gamma^\mu d_3)$	$^{ m C}$
dd_1322	$(ar{d}_1\gamma_\mu d_3) (ar{d}_2\gamma^\mu d_2)$	Č
dd_1323	$(ar{d}_1\gamma_\mu a_3) \left(ar{d}_2\gamma^\mu a_2 ight) \ \left(ar{d}_1\gamma_\mu d_3 ight) \left(ar{d}_2\gamma^\mu d_3 ight)$	Č
dd_1331	$(ar{d}_1\gamma_\mu a_3) \ (ar{d}_2\gamma^\mu a_3) \ (ar{d}_3\gamma^\mu d_1)$	R
dd_1332	$egin{array}{l} (ar{d}_1\gamma_\mu d_3) & (ar{d}_3\gamma^\mu d_2) \ \end{pmatrix}$	C
dd_1333	$egin{array}{c} (ar{d}_1\gamma_\mu d_3) & (ar{d}_3\gamma^\mu d_3) \ (ar{d}_1\gamma_\mu d_3) & (ar{d}_3\gamma^\mu d_3) \end{array}$	$\stackrel{ ext{C}}{ ext{C}}$
dd_1333 dd_2222	$egin{array}{c} (a_1\gamma_\mu a_3) & (a_3\gamma^\mu a_3) \ (ar{d}_2\gamma_\mu d_2) & (ar{d}_2\gamma^\mu d_2) \end{array}$	R
		C
dd_2223	$egin{pmatrix} (ar{d}_2\gamma_\mu d_2) \ (ar{d}_2\gamma^\mu d_3) \ (ar{d}_2\gamma^\mu d_3) \end{pmatrix}$	R
dd_2233	$egin{pmatrix} (ar{d}_2\gamma_\mu d_2) & (ar{d}_3\gamma^\mu d_3) \ (ar{d}_3\gamma_\mu d_3) & (ar{d}_3\gamma_\mu d_3) \end{pmatrix}$	C C
dd_2323	$\begin{pmatrix} d_2\gamma_\mu d_3 \end{pmatrix} \begin{pmatrix} d_2\gamma^\mu d_3 \end{pmatrix}$	
dd_2332	$\left(ar{d}_2\gamma_\mu d_3\right)\left(ar{d}_3\gamma^\mu d_2\right)$	R
dd_2333	$\left(ar{d}_2\gamma_\mu d_3\right)\left(ar{d}_3\gamma^\mu d_3\right)$	С
dd_3333	$\left(ar{d}_3\gamma_{\mu}d_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	R

WC name	Operator	Type
eu_1111	$(\bar{e}_1\gamma_\mu e_1)(\bar{u}_1\gamma^\mu u_1)$	R
eu_1112	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
eu_1113	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
eu_1122	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$\mathbf{R}$
eu_1123	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
eu_1133	$\left(ar{e}_1\gamma_{\mu}e_1 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	$\mathbf{R}$
eu_1211	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	$\mathbf{C}$
eu_1212	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
eu_1213	$(ar{e}_1\gamma_{\mu}e_2)(ar{u}_1\gamma^{\mu}u_3)$	$\mathbf{C}$
eu_1221	$(ar{e}_1\gamma_{\mu}e_2)(ar{u}_2\gamma^{\mu}u_1)$	$\mathbf{C}$
eu_1222	$(ar{e}_1\gamma_{\mu}e_2)(ar{u}_2\gamma^{\mu}u_2)$	$\mathbf{C}$
eu_1223	$(ar{e}_1\gamma_{\mu}e_2)(ar{u}_2\gamma^{\mu}u_3)$	$\mathbf{C}$
eu_1231	$(ar{e}_1\gamma_{\mu}e_2)(ar{u}_3\gamma^{\mu}u_1)$	$\mathbf{C}$
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	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
eu_1313	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$^{\mathrm{C}}$
eu_1321	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	$^{\mathrm{C}}$
eu_1322	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
eu_1323	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
eu_1331	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_1 ight)$	$\mathbf{C}$
eu_1332	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
eu_1333	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
eu_2211	$\left(\bar{e}_2\gamma_{\mu}e_2\right)\left(\bar{u}_1\gamma^{\mu}u_1\right)$	$\mathbf{R}$
eu_2212	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$^{\mathrm{C}}$
eu_2213	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
eu_2222	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	R
eu_2223	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
eu_2233	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	R
eu_2311	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	C
eu_2312	$\left(ar{e}_2\gamma_{\mu}e_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	C
eu_2313	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_1\gamma^\mu u_3)$	C
eu_2321	$(ar{e}_2\gamma_\mu e_3)(ar{u}_2\gamma^\mu u_1)$	$\stackrel{ ext{C}}{\sim}$
eu_2322	$(ar{e}_2\gamma_\mu e_3)(ar{u}_2\gamma^\mu u_2)$	$\stackrel{ ext{C}}{\sim}$
eu_2323	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_2\gamma^\mu u_3)$	$_{\rm C}$
eu_2331	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_1)$	С
eu_2332	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_2)$	С
eu_2333	$(\bar{e}_2\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_3)$	С
eu_3311	$(\bar{e}_3 \gamma_\mu e_3) (\bar{u}_1 \gamma^\mu u_1)$	R
eu_3312	$(\bar{e}_3 \gamma_{\mu} e_3) (\bar{u}_1 \gamma^{\mu} u_2)$	С
eu_3313	$(\bar{e}_3 \gamma_{\mu} e_3) (\bar{u}_1 \gamma^{\mu} u_3)$	С
eu_3322	$(\bar{e}_3 \gamma_\mu e_3) (\bar{u}_2 \gamma^\mu u_2)$	R
eu_3323	$(\bar{e}_3\gamma_\mu e_3)(\bar{u}_2\gamma^\mu u_3)$	$\mathbf{C}$

WC name	Operator	Type
eu_3333	$(\bar{e}_3\gamma_\mu e_3)(\bar{u}_3\gamma^\mu u_3)$	R
ed_1111	$(ar{e}_1\gamma_{\mu}e_1)(ar{d}_1\gamma^{\mu}d_1)$	R
ed_1112	$(ar{e}_1\gamma_{\mu}e_1)(ar{d}_1\gamma^{\mu}d_2)$	$\mathbf{C}$
ed_1113	$(ar{e}_1\gamma_{\mu}e_1)ig(ar{d}_1\gamma^{\mu}d_3ig)$	$\mathbf{C}$
ed_1122	$(ar{e}_1\gamma_{\mu}e_1)ig(ar{d}_2\gamma^{\mu}d_2ig)$	R
ed_1123	$(ar{e}_1\gamma_{\mu}e_1)(ar{d}_2\gamma^{\mu}d_3)$	$\mathbf{C}$
ed_1133	$(ar{e}_1\gamma_{\mu}e_1)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	$\mathbf{R}$
ed_1211	$(ar{e}_1\gamma_{\mu}e_2)ig(ar{d}_1\gamma^{\mu}d_1ig)$	$\mathbf{C}$
ed_1212	$(ar{e}_1\gamma_{\mu}e_2)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
ed_1213	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
ed_1221	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	$\mathbf{C}$
ed_1222	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$^{\mathrm{C}}$
ed_1223	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$^{\mathrm{C}}$
ed_1231	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	$^{\mathrm{C}}$
ed_1232	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
ed_1233	$\left(ar{e}_1\gamma_{\mu}e_2 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
ed_1311	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	$\mathbf{C}$
ed_1312	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
ed_1313	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
ed_1321	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	$\mathbf{C}$
ed_1322	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
ed_1323	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_2\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
ed_1331	$(ar{e}_1\gamma_{\mu}e_3)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	$\mathbf{C}$
ed_1332	$(ar{e}_1\gamma_{\mu}e_3)(ar{d}_3\gamma^{\mu}d_2)$	$\mathbf{C}$
ed_1333	$\left(ar{e}_1\gamma_{\mu}e_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
ed_2211	$\left(ar{e}_2\gamma_{\mu}e_2 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
ed_2212	$(ar{e}_2\gamma_\mu e_2) \left(ar{d}_1\gamma^\mu d_2 ight)$	C
ed_2213	$(ar{e}_2\gamma_\mu e_2) \left( ar{d}_1\gamma^\mu d_3  ight)$	С
ed_2222	$(ar{e}_2\gamma_\mu e_2) \left(d_2\gamma^\mu d_2 ight)$	R
ed_2223	$(\bar{e}_2\gamma_\mu e_2) \left(d_2\gamma^\mu d_3\right)$	С
ed_2233	$(ar{e}_2\gamma_\mu e_2) \left(ar{d}_3\gamma^\mu d_3 ight)$	R
ed_2311	$(\bar{e}_2\gamma_\mu e_3) \left(d_1\gamma^\mu d_1\right)$	$\stackrel{ ext{C}}{\sim}$
ed_2312	$(ar{e}_2\gamma_\mu e_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	С
ed_2313	$(ar{e}_2\gamma_\mu e_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	С
ed_2321	$(ar{e}_2\gamma_\mu e_3) \left(ar{d}_2\gamma^\mu d_1 ight)$	С
ed_2322	$(\bar{e}_2\gamma_\mu e_3) \left(d_2\gamma^\mu d_2\right)$	С
ed_2323	$(ar{e}_2\gamma_\mu e_3)ig(ar{d}_2\gamma^\mu d_3ig)$	С
ed_2331	$(\bar{e}_2\gamma_\mu e_3) \left(\bar{d}_3\gamma^\mu d_1\right)$	С
ed_2332	$(ar{e}_2\gamma_\mu e_3) \left(ar{d}_3\gamma^\mu d_2\right)$	С
ed_2333	$(ar{e}_2\gamma_\mu e_3) \left(ar{d}_3\gamma^\mu d_3 ight)$	С
ed_3311	$(ar{e}_3\gamma_\mu e_3) \left(ar{d}_1\gamma^\mu d_1 ight)$	R
ed_3312	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$\mathbf{C}$

WC name	Operator	Type
ed_3313	$\left(ar{e}_3\gamma_{\mu}e_3 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	C
ed_3322	$(ar{e}_3\gamma_\mu e_3)\left(ar{d}_2\gamma^\mu d_2 ight)$	${ m R}$
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	$(ar{u}_1\gamma_\mu u_1)(ar{d}_1\gamma^\mu d_1)$	${ m R}$
ud1_1112	$(ar{u}_1\gamma_\mu u_1)ig(ar{d}_1\gamma^\mu d_2ig)$	$^{\mathrm{C}}$
ud1_1113	$(ar{u}_1\gamma_\mu u_1)(ar{d}_1\gamma^\mu d_3)$	$\mathbf{C}$
ud1_1122	$(ar{u}_1\gamma_\mu u_1) \left(ar{d}_2\gamma^\mu d_2 ight)$	R
ud1_1123	$(ar{u}_1\gamma_\mu u_1)ig(ar{d}_2\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
ud1_1133	$(ar{u}_1\gamma_\mu u_1)(ar{d}_3\gamma^\mu d_3)$	${ m R}$
ud1_1211	$(ar{u}_1\gamma_\mu u_2) \left(ar{d}_1\gamma^\mu d_1 ight)$	$^{\mathrm{C}}$
ud1_1212	$(ar{u}_1\gamma_\mu u_2) \left(ar{d}_1\gamma^\mu d_2 ight)$	$\mathbf{C}$
ud1_1213	$(ar{u}_1\gamma_\mu u_2)ig(ar{d}_1\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
ud1_1221	$(ar{u}_1\gamma_\mu u_2)ig(ar{d}_2\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
ud1_1222	$(ar{u}_1\gamma_\mu u_2)ig(ar{d}_2\gamma^\mu d_2ig)$	$\mathbf{C}$
ud1_1223	$(ar{u}_1\gamma_\mu u_2)ig(ar{d}_2\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
ud1_1231	$(ar{u}_1\gamma_\mu u_2)ig(ar{d}_3\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
ud1_1232	$(ar{u}_1\gamma_\mu u_2)ig(ar{d}_3\gamma^\mu d_2ig)$	$\mathbf{C}$
ud1_1233	$(ar{u}_1\gamma_\mu u_2)ig(ar{d}_3\gamma^\mu d_3ig)$	$\mathbf{C}$
ud1_1311	$(ar{u}_1\gamma_\mu u_3)ig(ar{d}_1\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
ud1_1312	$(ar{u}_1\gamma_\mu u_3)ig(ar{d}_1\gamma^\mu d_2ig)$	$^{\mathrm{C}}$
ud1_1313	$(ar{u}_1\gamma_\mu u_3)\left(ar{d}_1\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
ud1_1321	$(ar{u}_1\gamma_\mu u_3)ig(ar{d}_2\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
ud1_1322	$(ar{u}_1\gamma_\mu u_3)\left(ar{d}_2\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
ud1_1323	$(ar{u}_1\gamma_\mu u_3)ig(ar{d}_2\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
ud1_1331	$(ar{u}_1\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
ud1_1332	$(ar{u}_1\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_2ig)$	$^{\mathrm{C}}$
ud1_1333	$(ar{u}_1\gamma_\mu u_3)\left(ar{d}_3\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
ud1_2211	$(ar{u}_2\gamma_\mu u_2)\left(ar{d}_1\gamma^\mu d_1 ight)$	R
ud1_2212	$(ar{u}_2\gamma_\mu u_2)ig(ar{d}_1\gamma^\mu d_2ig)$	$^{\mathrm{C}}$
ud1_2213	$(ar{u}_2\gamma_\mu u_2)\left(ar{d}_1\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
ud1_2222	$(ar{u}_2\gamma_\mu u_2)ig(ar{d}_2\gamma^\mu d_2ig)$	R
ud1_2223	$(ar{u}_2\gamma_\mu u_2)ig(ar{d}_2\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
ud1_2233	$(ar{u}_2\gamma_\mu u_2)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
ud1_2311	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_1\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
ud1_2312	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_1\gamma^\mu d_2ig)$	$^{\mathrm{C}}$
ud1_2313	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_1\gamma^\mu d_3ig)$	$^{\mathrm{C}}$
ud1_2321	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_2\gamma^\mu d_1ig)$	$^{\mathrm{C}}$
ud1_2322	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
ud1_2323	$(ar{u}_2\gamma_\mu u_3)ig(ar{d}_2\gamma^\mu d_3ig)$	$\mathbf{C}$
ud1_2331	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{d}_3\gamma^{\mu}d_1 ight)$	$\mathbf{C}$
ud1_2332	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{d}_3\gamma^{\mu}d_2 ight)$	$\mathbf{C}$

WC name	Operator	Type
ud1_2333	$\left(ar{u}_2\gamma_{\mu}u_3 ight)\left(ar{d}_3\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
ud1_3311	$(\bar{u}_3\gamma_\mu u_3) \left(\bar{d}_1\gamma^\mu d_1\right)$	R
ud1_3312	$(ar{u}_3\gamma_{\mu}u_3)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
ud1_3313	$(ar{u}_3\gamma_{\mu}u_3)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
ud1_3322	$(ar{u}_3\gamma_\mu u_3)(ar{d}_2\gamma^\mu d_2)$	R
ud1_3323	$(ar{u}_3\gamma_\mu u_3)(ar{d}_2\gamma^\mu d_3)$	$\mathbf{C}$
ud1_3333	$(ar{u}_3\gamma_\mu u_3)ig(ar{d}_3\gamma^\mu d_3ig)$	R
ud8_1111	$(ar{u}_1\gamma_\mu T^A u_1) \ (ar{d}_1\gamma^\mu T^A d_1)$	$\mathbf{R}$
ud8_1112	$\left(ar{u}_1\gamma_\mu T^A u_1 ight)\left(ar{d}_1\gamma^\mu T^A d_2 ight)$	$\mathbf{C}$
ud8_1113	$(\bar{u}_1\gamma_\mu T^A u_1)(\bar{d}_1\gamma^\mu T^A d_3)$	$\mathbf{C}$
ud8_1122	$\left(\bar{u}_1\gamma_\mu T^A u_1\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	R
ud8_1123	$(\bar{u}_1\gamma_\mu T^A u_1)(\bar{d}_2\gamma^\mu T^A d_3)$	$\mathbf{C}$
ud8_1133	$(\bar{u}_1\gamma_\mu T^A u_1)(\bar{d}_3\gamma^\mu T^A d_3)$	R
ud8_1211	$(\bar{u}_1\gamma_\mu T^A u_2)(\bar{d}_1\gamma^\mu T^A d_1)$	$\mathbf{C}$
ud8_1212	$\left(ar{u}_1\gamma_\mu T^A u_2 ight)\left(ar{d}_1\gamma^\mu T^A d_2 ight)$	$\mathbf{C}$
ud8_1213	$(\bar{u}_1\gamma_\mu T^A u_2)(\bar{d}_1\gamma^\mu T^A d_3)$	$\mathbf{C}$
ud8_1221	$\left(ar{u}_1\gamma_\mu T^A u_2 ight)\left(ar{d}_2\gamma^\mu T^A d_1 ight)$	$\mathbf{C}$
ud8_1222	$\left(ar{u}_1\gamma_\mu T^A u_2 ight)\left(ar{d}_2\gamma^\mu T^A d_2 ight)$	$\mathbf{C}$
ud8_1223	$\left(ar{u}_1\gamma_\mu T^A u_2 ight)\left(ar{d}_2\gamma^\mu T^A d_3 ight)$	$\mathbf{C}$
ud8_1231	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_3\gamma^\mu T^A d_1\right)$	$\mathbf{C}$
ud8_1232	$\left(ar{u}_1\gamma_{\mu}T^Au_2 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_2 ight)$	$\mathbf{C}$
ud8_1233	$\left(ar{u}_1\gamma_{\mu}T^Au_2 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_3 ight)$	$\mathbf{C}$
ud8_1311	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	$\mathbf{C}$
ud8_1312	$\left(ar{u}_1\gamma_{\mu}T^Au_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	$\mathbf{C}$
ud8_1313	$\left(ar{u}_1\gamma_{\mu}T^Au_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_3 ight)$	$\mathbf{C}$
ud8_1321	$\left(ar{u}_1\gamma_{\mu}T^Au_3 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_1 ight)$	$\mathbf{C}$
ud8_1322	$\left(ar{u}_1\gamma_{\mu}T^Au_3 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_2 ight)$	$\mathbf{C}$
ud8_1323	$\left(ar{u}_1\gamma_\mu T^A u_3 ight)\left(ar{d}_2\gamma^\mu T^A d_3 ight)$	$\mathbf{C}$
ud8_1331	$\left(ar{u}_1\gamma_{\mu}T^Au_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_1 ight)$	$\mathbf{C}$
ud8_1332	$\left(ar{u}_1\gamma_{\mu}T^Au_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_2 ight)$	$\mathbf{C}$
ud8_1333	$\left(ar{u}_1\gamma_{\mu}T^Au_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_3 ight)$	$\mathbf{C}$
ud8_2211	$\left(ar{u}_2\gamma_\mu T^A u_2 ight)\left(ar{d}_1\gamma^\mu T^A d_1 ight)$	R
ud8_2212	$\left(ar{u}_2\gamma_{\mu}T^Au_2 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	$\mathbf{C}$
ud8_2213	$\left(ar{u}_2\gamma_\mu T^A u_2 ight)\left(ar{d}_1\gamma^\mu T^A d_3 ight)$	$\mathbf{C}$
ud8_2222	$\left(ar{u}_2\gamma_\mu T^A u_2 ight)\left(ar{d}_2\gamma^\mu T^A d_2 ight)$	R
ud8_2223	$\left(ar{u}_2\gamma_{\mu}T^Au_2 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_3 ight)$	$\mathbf{C}$
ud8_2233	$\left(ar{u}_2\gamma_{\mu}T^Au_2 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_3 ight)$	R
ud8_2311	$\left(ar{u}_2\gamma_{\mu}T^Au_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_1 ight)$	$\mathbf{C}$
ud8_2312	$\left(ar{u}_2\gamma_\mu T^A u_3 ight)\left(ar{d}_1\gamma^\mu T^A d_2 ight)$	$\mathbf{C}$
ud8_2313	$\left(ar{u}_2\gamma_\mu T^A u_3 ight)\left(ar{d}_1\gamma^\mu T^A d_3 ight)$	$\mathbf{C}$
ud8_2321	$\begin{array}{c} (\bar{u}_{2}\gamma_{\mu}T^{A}u_{2}) \ (\bar{d}_{3}\gamma^{\mu}T^{A}d_{3}) \\ (\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}) \ (\bar{d}_{1}\gamma^{\mu}T^{A}d_{1}) \\ (\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}) \ (\bar{d}_{1}\gamma^{\mu}T^{A}d_{2}) \\ (\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}) \ (\bar{d}_{1}\gamma^{\mu}T^{A}d_{3}) \\ (\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}) \ (\bar{d}_{2}\gamma^{\mu}T^{A}d_{1}) \\ (\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}) \ (\bar{d}_{2}\gamma^{\mu}T^{A}d_{1}) \\ (\bar{u}_{2}\gamma_{\mu}T^{A}u_{3}) \ (\bar{d}_{2}\gamma^{\mu}T^{A}d_{1}) \end{array}$	$\mathbf{C}$
ud8_2322	$\left( ar{u}_2 \gamma_\mu T^A u_3 \right) \left( ar{d}_2 \gamma^\mu T^A d_2 \right)$	$\mathbf{C}$

WC name	Operator	Type
ud8_2323	$(\bar{u}_2\gamma_\mu T^A u_3) (\bar{d}_2\gamma^\mu T^A d_3)$	C
ud8_2331	$\left\langle ar{u}_2 \gamma_\mu T^A u_3 \right\rangle \left\langle ar{d}_3 \gamma^\mu T^A d_1 \right\rangle$	$\mathbf{C}$
ud8_2332	$\left(\bar{u}_2\gamma_\mu T^A u_3\right) \left(\bar{d}_3\gamma^\mu T^A d_2\right)$	$\mathbf{C}$
ud8_2333	$(ar{u}_2\gamma_\mu T^A u_3) (ar{d}_3\gamma^\mu T^A d_3)$	$\mathbf{C}$
ud8_3311	$(\bar{u}_3\gamma_\mu T^A u_3)(\bar{d}_1\gamma^\mu T^A d_1)$	R
ud8_3312	$\left(\bar{u}_3\gamma_{\mu}T^Au_3\right)\left(\bar{d}_1\gamma^{\mu}T^Ad_2\right)$	$^{\mathrm{C}}$
ud8_3313	$(\bar{u}_3\gamma_\mu T^Au_3)(\bar{d}_1\gamma^\mu T^Ad_3)$	$^{\mathrm{C}}$
ud8_3322	$\left(\bar{u}_3\gamma_{\mu}T^Au_3\right)\left(\bar{d}_2\gamma^{\mu}T^Ad_2\right)$	R
ud8_3323	$\left\langle ar{u}_{3}\gamma_{\mu}T^{A}u_{3} ight angle \left\langle ar{d}_{2}\gamma^{\mu}T^{A}d_{3} ight angle$	$\mathbf{C}$
ud8_3333	$\left(\bar{u}_3\gamma_{\mu}T^Au_3\right)\left(\bar{d}_3\gamma^{\mu}T^Ad_3\right)$	R
le_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_1\gamma^\mu e_1 ight)$	R
le_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	$\mathbf{C}$
le_1113	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{e}_1\gamma^\mu e_3)$	$\mathbf{C}$
le_1122	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{e}_2\gamma^\mu e_2)$	${ m R}$
le_1123	$(ar{\ell}_1\gamma_\mu\ell_1)(ar{e}_2\gamma^\mu e_3)$	$\mathbf{C}$
le_1133	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	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	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	$\mathbf{C}$
le_1213	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
le_1221	$\left(ar{\ell}_1\gamma_{\mu}\ell_2 ight)\left(ar{e}_2\gamma^{\mu}e_1 ight)$	$^{\mathrm{C}}$
le_1222	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	$\mathbf{C}$
le_1223	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
le_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_1 ight)$	$\mathbf{C}$
le_1232	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_2 ight)$	$\mathbf{C}$
le_1233	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	$\mathbf{C}$
le_1311	$\left( \ell_1 \gamma_\mu \ell_3  ight) \left( ar{e}_1 \gamma^\mu e_1  ight)$	$\mathbf{C}$
le_1312	$\left( \ell_1 \gamma_\mu \ell_3  ight) \left( ar{e}_1 \gamma^\mu e_2  ight)$	$\mathbf{C}$
le_1313	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
le_1321	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_1 ight)$	$^{\mathrm{C}}$
le_1322	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	$\mathbf{C}$
le_1323	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	$\mathbf{C}$
le_1331	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_1 ight)$	$\mathbf{C}$
le_1332	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_2 ight)$	$^{\mathrm{C}}$
le_1333	$\left( \ell_1 \gamma_\mu \ell_3 \right) \left( ar{e}_3 \gamma^\mu e_3  ight)$	$^{\mathrm{C}}$
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	$\left(\ell_2\gamma_\mu\ell_2\right)\left(ar{e}_1\gamma^\mu e_3 ight)$	$^{\mathrm{C}}$
le_2222	$\left( ar{\ell}_2 \gamma_\mu \ell_2  ight) \left( ar{e}_2 \gamma^\mu e_2  ight)$	R
le_2223	$\left( \ell_2 \gamma_\mu \ell_2 \right) \left( \bar{e}_2 \gamma^\mu e_3 \right)$	$\mathbf{C}$
le_2233	$\left( \bar{\ell}_2 \gamma_\mu \ell_2 \right) \left( \bar{e}_3 \gamma^\mu e_3 \right)$	R
le_2311	$ig(ar{\ell}_2\gamma_\mu\ell_3ig)(ar{e}_1\gamma^\mu e_1)$	C
le_2312	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_2 ight)$	$^{\mathrm{C}}$

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_2313	$(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{e}_1\gamma^\mu e_3)$	С
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_2321		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_2322		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_2323		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_2331		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_2332		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_2333		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_3311		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_3312		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_3313	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{e}_1\gamma^\mu e_3 ight)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le_3322	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_2 ight)$	R
lu_1111 $(\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_1 \gamma^\mu u_1)$ R         lu_1112 $(\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_1 \gamma^\mu u_2)$ C         lu_1113 $(\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_1 \gamma^\mu u_3)$ C	le_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	$\mathbf{C}$
lu_1112 $(\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_1 \gamma^\mu u_2)$ C         lu_1113 $(\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_1 \gamma^\mu u_3)$ C	le_3333	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{e}_3\gamma^\mu e_3 ight)$	R
lu_1113 $ (\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_1 \gamma^\mu u_3) $ C	lu_1111	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{u}_1\gamma^\mu u_1 ight)$	R
	lu_1112	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{u}_1\gamma^\mu u_2 ight)$	$\mathbf{C}$
	lu_1113	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{u}_1\gamma^\mu u_3 ight)$	$\mathbf{C}$
lu_1122 $ (\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_2 \gamma^\mu u_2) $ R	lu_1122	$\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{u}_2\gamma^\mu u_2 ight)$	$\mathbf{R}$
lu_1123 $ (\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_2 \gamma^\mu u_3) $ C	lu_1123		$\mathbf{C}$
lu_1133 $ (\bar{\ell}_1 \gamma_\mu \ell_1) (\bar{u}_3 \gamma^\mu u_3) $ R	lu_1133	$(\bar{\ell}_1\gamma_\mu\ell_1)(\bar{u}_3\gamma^\mu u_3)$	$\mathbf{R}$
lu_1211 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_1) $ C	lu_1211		$\mathbf{C}$
lu_1212 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_2) $ C	lu_1212		$\mathbf{C}$
lu_1213 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_3) $ C	lu_1213		$\mathbf{C}$
lu_1221 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_1) $ 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 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_2) $ 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 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_3) $ C	lu_1223		$\mathbf{C}$
lu_1231 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_3 \gamma^\mu u_1) $ C	lu_1231	$\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{u}_3\gamma^\mu u_1 ight)$	$\mathbf{C}$
lu_1232 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_3 \gamma^\mu u_2) $ C	lu_1232		$\mathbf{C}$
lu_1233 $ (\bar{\ell}_1 \gamma_\mu \ell_2) (\bar{u}_3 \gamma^\mu u_3) $ C	lu_1233		$\mathbf{C}$
lu_1311 $ (\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_1) $ C	lu_1311		$\mathbf{C}$
lu_1312 $ (\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_2) $ C	lu_1312		$\mathbf{C}$
lu_1313 $ (\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_1 \gamma^\mu u_3) $ C	lu_1313		$\mathbf{C}$
lu_1321 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_1)$ C	lu_1321		$\mathbf{C}$
lu_1322 $ (\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_2) $ C	lu_1322		$\mathbf{C}$
lu_1323 $ (\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_2 \gamma^\mu u_3) $ C	lu_1323		$\mathbf{C}$
lu_1331 $(\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_1)$ C	lu_1331		$\mathbf{C}$
lu_1332 $ (\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_2) $ C	lu_1332		$\mathbf{C}$
lu_1333 $ (\bar{\ell}_1 \gamma_\mu \ell_3) (\bar{u}_3 \gamma^\mu u_3) $ C	lu_1333	$\left(ar{\ell}_1\gamma_\mu\ell_3 ight)\left(ar{u}_3\gamma^\mu u_3 ight)$	$\mathbf{C}$
lu_2211 $ (\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_1) $ R	lu_2211	$(\bar{\ell}_2\gamma_\mu\ell_2)(\bar{u}_1\gamma^\mu u_1)$	$\mathbf{R}$
lu_2212 $ (\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_2) $ C	lu_2212		$\mathbf{C}$
lu_2213 $ (\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_1 \gamma^\mu u_3) $ C	lu_2213		$\mathbf{C}$
lu_2222 $ (\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_2) $ R	lu_2222		$\mathbf{R}$
lu_2223 $ (\bar{\ell}_2 \gamma_\mu \ell_2) (\bar{u}_2 \gamma^\mu u_3) $ C	lu_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_2\gamma^\mu u_3 ight)$	$\mathbf{C}$

lu_2233 $\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{u}_3\gamma^\mu u_3 ight)$	R
lu_2311 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_1\gamma^\mu u_1)$	$\mathbf{C}$
lu_2312 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_1\gamma^\mu u_2)$	$\mathbf{C}$
lu_2313 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_1\gamma^\mu u_3)$	$\mathbf{C}$
lu_2321 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_2\gamma^\mu u_1)$	$\mathbf{C}$
lu_2322 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_2\gamma^\mu u_2)$	$\mathbf{C}$
lu_2323 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_2\gamma^\mu u_3)$	$\mathbf{C}$
lu_2331 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_3\gamma^\mu u_1)$	$\mathbf{C}$
lu_2332 $\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	$\mathbf{C}$
lu_2333 $(\bar{\ell}_2\gamma_\mu\ell_3)(\bar{u}_3\gamma^\mu u_3)$	$\mathbf{C}$
lu_3311 $(\bar{\ell}_3\gamma_\mu\ell_3)(\bar{u}_1\gamma^\mu u_1)$	$\mathbf{R}$
lu_3312 $(\bar{\ell}_3\gamma_\mu\ell_3)(\bar{u}_1\gamma^\mu u_2)$	$\mathbf{C}$
lu_3313 $\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	$\mathbf{C}$
lu_3322 $(\bar{\ell}_3\gamma_\mu\ell_3)(\bar{u}_2\gamma^\mu u_2)$	$\mathbf{R}$
lu_3323 $\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	$\mathbf{C}$
lu_3333 $\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	$\mathbf{R}$
ld_1111 $\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_1\gamma^\mu d_1 ight)$	$\mathbf{R}$
ld_1112 $\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	$\mathbf{C}$
ld_1113 $\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	$\mathbf{C}$
ld_1122 $\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	$\mathbf{R}$
ld_1123 $\left(ar{\ell}_1\gamma_\mu\ell_1 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	$\mathbf{C}$
ld_1133 $(\bar{\ell}_1\gamma_\mu\ell_1)(\bar{d}_3\gamma^\mu d_3)$	$\mathbf{R}$
ld_1211 $(\bar{\ell}_1\gamma_\mu\ell_2)(\bar{d}_1\gamma^\mu d_1)$	$\mathbf{C}$
ld_1212 $\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	$\mathbf{C}$
ld_1213 $(ar{\ell}_1\gamma_\mu\ell_2)(ar{d}_1\gamma^\mu d_3)$	$\mathbf{C}$
ld_1221 $\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_1 ight)$	$\mathbf{C}$
ld_1222 $\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	$\mathbf{C}$
ld_1223 $(ar{\ell}_1\gamma_\mu\ell_2)(ar{d}_2\gamma^\mu d_3)$	$\mathbf{C}$
ld_1231 $(ar{\ell}_1\gamma_\mu\ell_2)(ar{d}_3\gamma^\mu d_1)$	$\mathbf{C}$
ld_1232 $\left(ar{\ell}_1\gamma_\mu\ell_2 ight)\left(ar{d}_3\gamma^\mu d_2 ight)$	$\mathbf{C}$
ld_1233 $\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	$\mathbf{C}$
ld_1311 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_1\gamma^\mu d_1)$	$\mathbf{C}$
ld_1312 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_1\gamma^\mu d_2)$	$\mathbf{C}$
ld_1313 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_1\gamma^\mu d_3)$	$\mathbf{C}$
ld_1321 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_2\gamma^\mu d_1)$	$\mathbf{C}$
ld_1322 $(ar{\ell}_1\gamma_\mu\ell_3)(ar{d}_2\gamma^\mu d_2)$	$\mathbf{C}$
ld_1323 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_2\gamma^\mu d_3)$	$\mathbf{C}$
ld_1331 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_3\gamma^\mu d_1)$	$\mathbf{C}$
ld_1332 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_3\gamma^\mu d_2)$	$\mathbf{C}$
ld_1333 $(\bar{\ell}_1\gamma_\mu\ell_3)(\bar{d}_3\gamma^\mu d_3)$	$\mathbf{C}$
ld_2211 $(\bar{\ell}_2\gamma_\mu\ell_2)(\bar{d}_1\gamma^\mu d_1)$	$\mathbf{R}$
ld_2212 $\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	С

WC name	Operator	Type
ld_2213	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	C
ld_2222	$(ar{\ell}_2\gamma_\mu\ell_2)(ar{d}_2\gamma^\mu d_2)$	R
ld_2223	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
ld_2233	$\left(ar{\ell}_2\gamma_\mu\ell_2 ight)\left(ar{d}_3\gamma^\mu d_3 ight)$	R
ld_2311	$\left\langle ar{\ell}_2 \gamma_\mu \ell_3  ight angle \left\langle ar{d}_1 \gamma^\mu d_1  ight angle$	$^{\mathrm{C}}$
_ ld_2312	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
_ ld_2313	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
ld_2321	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_1 ight)$	$\mathbf{C}$
ld_2322	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
_ 1d_2323	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
_ ld_2331	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_1 ight)$	$^{\mathrm{C}}$
_ ld_2332	$\left(ar{\ell}_2\gamma_\mu\ell_3 ight)\left(ar{d}_3\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
ld_2333	$(ar{\ell}_2\gamma_\mu\ell_3) (ar{d}_3\gamma^\mu d_3)$	$^{ m C}$
_ ld_3311	$egin{pmatrix} (ar\ell_3\gamma_\mu\ell_3) & (ar d_1\gamma^\mu d_1) \end{pmatrix}$	R
_ ld_3312	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_1\gamma^\mu d_2 ight)$	$^{\mathrm{C}}$
ld_3313	$(ar{\ell}_3\gamma_\mu\ell_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	$\dot{\mathrm{C}}$
_ 1d_3322	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_2 ight)$	${ m R}$
_ 1d_3323	$\left(ar{\ell}_3\gamma_\mu\ell_3 ight)\left(ar{d}_2\gamma^\mu d_3 ight)$	$^{\mathrm{C}}$
ld_3333	$(ar{\ell}_3\gamma_\mu\ell_3)(ar{d}_3\gamma^\mu d_3)$	R
qe_1111	$(ar{q}_1\gamma_\mu q_1)(ar{e}_1\gamma^\mu e_1)$	R
qe_1112	$(ar{q}_1\gamma_\mu q_1)(ar{e}_1\gamma^\mu e_2)$	$^{\mathrm{C}}$
qe_1113	$(ar{q}_1\gamma_\mu q_1)(ar{e}_1\gamma^\mu e_3)$	C
qe_1122	$(ar{q}_1\gamma_\mu q_1)(ar{e}_2\gamma^\mu e_2)$	R
qe_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	$^{\mathrm{C}}$
qe_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
qe_1211	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	$\mathbf{C}$
qe_1212	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	$\mathbf{C}$
qe_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
qe_1221	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_2\gamma^{\mu}e_1 ight)$	$^{\mathrm{C}}$
qe_1222	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	C
qe_1223	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	C
qe_1231	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{e}_3\gamma^{\mu}e_1 ight)$	C
qe_1232	$(ar{q}_1\gamma_\mu q_2)(ar{e}_3\gamma^\mu e_2)$	C
qe_1233	$(ar{q}_1\gamma_\mu q_2)(ar{e}_3\gamma^\mu e_3)$	$^{\mathrm{C}}$
qe_1311	$(ar{q}_1\gamma_\mu q_3)(ar{e}_1\gamma^\mu e_1)$	C
qe_1312	$(\bar{q}_1\gamma_\mu q_3)(\bar{e}_1\gamma^\mu e_2)$	C
qe_1313	$(\bar{q}_1\gamma_\mu q_3)(\bar{e}_1\gamma^\mu e_3)$	C C
qe_1321	$(\bar{q}_1\gamma_\mu q_3)(\bar{e}_2\gamma^\mu e_1)$	C
qe_1322 qe_1323	$egin{array}{l} (ar{q}_1\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_2) \ (ar{q}_1\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_3) \end{array}$	C C C
qe_1323 qe_1331	$egin{array}{l} (q_1\gamma_\mu q_3) \left( e_2\gamma^\mu e_3  ight) \ \left( ar q_1\gamma_\mu q_3  ight) \left( ar e_3\gamma^\mu e_1  ight) \end{array}$	C
qe_1331 qe_1332	$egin{array}{l} (q_1\gamma_\mu q_3) \left(ar{e}_3\gamma^\mu e_1 ight) \ \left(ar{q}_1\gamma_\mu q_3 ight) \left(ar{e}_3\gamma^\mu e_2 ight) \end{array}$	C
qe_1332 qe_1333	$(q_1\gamma_\mu q_3) (e_3\gamma^\mu e_2) \ (ar q_1\gamma_\mu q_3) (ar e_3\gamma^\mu e_3)$	C
4e_1000	$(41.1 \mu 43) (63.1.63)$	C

WC name	Operator	Type
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	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_1\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
qe_2222	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
qe_2223	$(ar{q}_2\gamma_\mu q_2)(ar{e}_2\gamma^\mu e_3)$	$\mathbf{C}$
qe_2233	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
qe_2311	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_1 ight)$	$\mathbf{C}$
qe_2312	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_1\gamma^{\mu}e_2 ight)$	$\mathbf{C}$
qe_2313	$(ar{q}_2\gamma_\mu q_3)(ar{e}_1\gamma^\mu e_3)$	$\mathbf{C}$
qe_2321	$(ar{q}_2\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_1)$	$\mathbf{C}$
qe_2322	$(ar{q}_2\gamma_\mu q_3)(ar{e}_2\gamma^\mu e_2)$	$\mathbf{C}$
qe_2323	$\left(ar{q}_2\gamma_\mu q_3 ight)\left(ar{e}_2\gamma^\mu e_3 ight)$	$\mathbf{C}$
qe_2331	$(ar{q}_2\gamma_\mu q_3)(ar{e}_3\gamma^\mu e_1)$	$\mathbf{C}$
qe_2332	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{e}_3\gamma^{\mu}e_2 ight)$	$^{\mathrm{C}}$
qe_2333	$(ar{q}_2\gamma_\mu q_3)(ar{e}_3\gamma^\mu e_3)$	$\mathbf{C}$
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	$(ar{q}_3\gamma_\mu q_3)(ar{e}_1\gamma^\mu e_3)$	$\mathbf{C}$
qe_3322	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_2 ight)$	R
qe_3323	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_2\gamma^{\mu}e_3 ight)$	$\mathbf{C}$
qe_3333	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{e}_3\gamma^{\mu}e_3 ight)$	R
qu1_1111	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	${ m R}$
qu1_1112	$(ar{q}_1\gamma_\mu q_1)(ar{u}_1\gamma^\mu u_2)$	$^{\mathrm{C}}$
qu1_1113	$(ar{q}_1\gamma_{\mu}q_1)(ar{u}_1\gamma^{\mu}u_3)$	$\mathbf{C}$
qu1_1122	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$\mathbf{R}$
qu1_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	C
qu1_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	R
qu1_1211	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	C
qu1_1212	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	C
qu1_1213	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	C
qu1_1221	$\left(ar{q}_1\gamma_{\mu}q_2\right)\left(ar{u}_2\gamma^{\mu}u_1\right)$	C
qu1_1222	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	C
qu1_1223	$(ar{q}_1\gamma_\mu q_2)(ar{u}_2\gamma^\mu u_3)$	$\stackrel{ ext{C}}{ ilde{ ilde{c}}}$
qu1_1231	$(ar{q}_1\gamma_\mu q_2)(ar{u}_3\gamma^\mu u_1)$	$\stackrel{ ext{C}}{ ilde{ ilde{c}}}$
qu1_1232	$(ar{q}_1\gamma_\mu q_2)(ar{u}_3\gamma^\mu u_2)$	C
qu1_1233	$(\bar{q}_1\gamma_\mu q_2)(\bar{u}_3\gamma^\mu u_3)$	C
qu1_1311	$(ar{q}_1\gamma_\mu q_3)(ar{u}_1\gamma^\mu u_1)$	С
qu1_1312	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_1\gamma^\mu u_2)$	C C
qu1_1313	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_1\gamma^\mu u_3)$	
qu1_1321	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_1)$	C C
qu1_1322	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_2)$	C
qu1_1323	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_2\gamma^\mu u_3)$	C
qu1_1331	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_3\gamma^\mu u_1)$	C
qu1_1332	$(\bar{q}_1\gamma_\mu q_3)(\bar{u}_3\gamma^\mu u_2)$	C

WC name	Operator	Type
qu1_1333	$\left(ar{q}_1\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	С
qu1_2211	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	$\mathbf{R}$
qu1_2212	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
qu1_2213	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
qu1_2222	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$\mathbf{R}$
qu1_2223	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
qu1_2233	$\left(ar{q}_2\gamma_{\mu}q_2 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	$\mathbf{R}$
qu1_2311	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	$\mathbf{C}$
qu1_2312	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
qu1_2313	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
qu1_2321	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_1 ight)$	$\mathbf{C}$
qu1_2322	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
qu1_2323	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
qu1_2331	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_1 ight)$	$\mathbf{C}$
qu1_2332	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
qu1_2333	$\left(ar{q}_2\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
qu1_3311	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_1 ight)$	$\mathbf{R}$
qu1_3312	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_2 ight)$	$\mathbf{C}$
qu1_3313	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_1\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
qu1_3322	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_2 ight)$	$\mathbf{R}$
qu1_3323	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_2\gamma^{\mu}u_3 ight)$	$\mathbf{C}$
qu1_3333	$\left(ar{q}_3\gamma_{\mu}q_3 ight)\left(ar{u}_3\gamma^{\mu}u_3 ight)$	$\mathbf{R}$
qd1_1111	$(ar{q}_1\gamma_{\mu}q_1)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	$\mathbf{R}$
qd1_1112	$(ar{q}_1\gamma_{\mu}q_1)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
qd1_1113	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_1\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
qd1_1122	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$\mathbf{R}$
qd1_1123	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(d_2\gamma^{\mu}d_3 ight)$	$\mathbf{C}$
qd1_1133	$\left(ar{q}_1\gamma_{\mu}q_1 ight)\left(d_3\gamma^{\mu}d_3 ight)$	$\mathbf{R}$
qd1_1211	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	$\mathbf{C}$
qd1_1212	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
qd1_1213	$(ar{q}_1\gamma_\mu q_2)\left(ar{d}_1\gamma^\mu d_3 ight)$	$\mathbf{C}$
qd1_1221	$(ar{q}_1\gamma_{\mu}q_2)\left(ar{d}_2\gamma^{\mu}d_1 ight)$	$\mathbf{C}$
qd1_1222	$\left(ar{q}_1\gamma_{\mu}q_2 ight)\left(ar{d}_2\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
qd1_1223	$\left(ar{q}_{1}\gamma_{\mu}q_{2} ight)\left(ar{d}_{2}\gamma^{\mu}d_{3} ight)$	$\mathbf{C}$
qd1_1231	$(ar{q}_1\gamma_\mu q_2) (ar{d}_3\gamma^\mu d_1)$	$\mathbf{C}$
qd1_1232	$(ar{q}_1\gamma_{\mu}q_2)(ar{d}_3\gamma^{\mu}d_2)$	$\mathbf{C}$
qd1_1233	$(\bar{q}_1\gamma_\mu q_2)(\bar{d}_3\gamma^\mu d_3)$	$\mathbf{C}$
qd1_1311	$(ar{q}_1\gamma_{\mu}q_3) (ar{d}_1\gamma^{\mu}d_1)$	$\mathbf{C}$
qd1_1312	$(ar{q}_1\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	$\mathbf{C}$
qd1_1313	$(ar{q}_1\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	Ċ
qd1_1321	$(\bar{q}_1\gamma_\mu q_3) \begin{pmatrix} \bar{u}_1 & \bar{u}_3 \end{pmatrix}  (\bar{q}_1\gamma_\mu q_3) \begin{pmatrix} \bar{d}_2\gamma^\mu d_1 \end{pmatrix}$	C
qd1_1322	$(\bar{q}_1\gamma_\mu q_3)(\bar{d}_2\gamma^\mu d_2)$	$\stackrel{\circ}{\mathrm{C}}$
qd1_1323	$(q_1 \gamma_\mu q_3) (a_2 \gamma a_2)  (\bar{q}_1 \gamma_\mu q_3) (\bar{d}_2 \gamma^\mu d_3)$	$^{\rm C}$
441_1020	$(41/\mu43)(\omega2/\omega3)$	O

WC name	Operator	Type
qd1_1331	$(ar{q}_1\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_1 ight)$	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	$(ar{q}_2\gamma_{\mu}q_2)\left(ar{d}_1\gamma^{\mu}d_1 ight)$	R
qd1_2212	$(ar{q}_2\gamma_{\mu}q_2)\left(ar{d}_1\gamma^{\mu}d_2 ight)$	$\mathbf{C}$
qd1_2213	$(ar{q}_2\gamma_\mu q_2) \left(ar{d}_1\gamma^\mu d_3 ight)$	$\mathbf{C}$
qd1_2222	$(ar{q}_2\gamma_\mu q_2) \left(ar{d}_2\gamma^\mu d_2 ight)$	R
qd1_2223	$(ar{q}_2\gamma_\mu q_2) \left(ar{d}_2\gamma^\mu d_3 ight)$	$\mathbf{C}$
qd1_2233	$(ar{q}_2\gamma_\mu q_2)ig(ar{d}_3\gamma^\mu d_3ig)$	R
qd1_2311	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_1 ight)$	$\mathbf{C}$
qd1_2312	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	$\mathbf{C}$
qd1_2313	$(\bar{q}_2\gamma_\mu q_3)(\bar{d}_1\gamma^\mu d_3)$	$\mathbf{C}$
qd1_2321	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_2\gamma^\mu d_1 ight)$	$\mathbf{C}$
qd1_2322	$egin{array}{c} \langle ar{q}_2 \gamma_\mu q_3  angle \left( ar{d}_2 \gamma^\mu d_2  ight) \end{array}$	$\mathbf{C}$
qd1_2323	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_2\gamma^\mu d_3 ight)$	$\mathbf{C}$
qd1_2331	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_1 ight)$	$\mathbf{C}$
qd1_2332	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_2 ight)$	$\mathbf{C}$
qd1_2333	$(ar{q}_2\gamma_\mu q_3) \left(ar{d}_3\gamma^\mu d_3 ight)$	$\mathbf{C}$
qd1_3311	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_1 ight)$	R
qd1_3312	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_2 ight)$	$\mathbf{C}$
qd1_3313	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_1\gamma^\mu d_3 ight)$	$\mathbf{C}$
qd1_3322	$(ar{q}_3\gamma_\mu q_3) \left(ar{d}_2\gamma^\mu d_2 ight)$	$\mathbf{R}$
qd1_3323	$(\bar{q}_3\gamma_\mu q_3)(\bar{d}_2\gamma^\mu d_3)$	$\mathbf{C}$
qd1_3333	$(\bar{q}_3\gamma_\mu q_3)(\bar{d}_3\gamma^\mu d_3)$	R
qu8_1111	$(\bar{q}_1\gamma_\mu T^Aq_1)(\bar{u}_1\gamma^\mu T^Au_1)$	R
qu8_1112	$\left\langle ar{q}_1 \gamma_\mu T^A q_1 \right\rangle \left\langle ar{u}_1 \gamma^\mu T^A u_2 \right\rangle$	$\mathbf{C}$
qu8_1113	$\left\langle ar{q}_{1}\gamma_{\mu}T^{A}q_{1} ight angle \left\langle ar{u}_{1}\gamma^{\mu}T^{A}u_{3} ight angle$	$^{\mathrm{C}}$
qu8_1122	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	R
qu8_1123	$\left( ar{q}_1 \gamma_\mu T^A q_1 \right) \left( ar{u}_2 \gamma^\mu T^A u_3 \right)$	$\mathbf{C}$
qu8_1133	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{u}_3\gamma^{\mu}T^Au_3 ight)$	R
qu8_1211	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_1 ight)$	$^{\mathrm{C}}$
qu8_1212	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_1213	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_1\gamma^{\mu}T^Au_3 ight)$	$\mathbf{C}$
qu8_1221	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{u}_2\gamma^\mu T^Au_1 ight)$	$^{\mathrm{C}}$
qu8_1222	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	С
qu8_1223	$\left( ar{q}_1 \gamma_\mu T^A q_2 \right) \left( ar{u}_2 \gamma^\mu T^A u_3 \right)$	C
qu8_1231	$\left(\bar{q}_1\gamma_\mu T^Aq_2\right)\left(\bar{u}_3\gamma^\mu T^Au_1\right)$	C
qu8_1232	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_3\gamma^\mu T^A u_2\right)$	C
qu8_1233	$\left( \overline{q}_{1}\gamma_{\mu}T^{A}q_{2}\right) \left( \overline{u}_{3}\gamma^{\mu}T^{A}u_{3}\right)$	$^{\mathrm{C}}$
qu8_1311	$\left( \bar{q}_1 \gamma_\mu T^A q_3 \right) \left( \bar{u}_1 \gamma^\mu T^A u_1 \right)$	С
qu8_1312	$\left\langle ar{q}_{1}\gamma_{\mu}T^{A}q_{3} ight angle \left\langle ar{u}_{1}\gamma^{\mu}T^{A}u_{2} ight angle $	С
qu8_1313	$\left( \overline{q}_1 \gamma_\mu T^A q_3 \right) \left( \overline{u}_1 \gamma^\mu T^A u_3 \right)$	С
qu8_1321	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_1 ight)$	С

WC name	Operator	Type
qu8_1322	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_2 ight)$	$\mathbf{C}$
qu8_1323	$(\bar{q}_1\gamma_\mu T^Aq_3) (\bar{u}_2\gamma^\mu T^Au_3)$	$^{\mathrm{C}}$
qu8_1331	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_3\gamma^{\mu}T^Au_1 ight)$	C
qu8_1332	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_3\gamma^{\mu}T^Au_2 ight)$	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	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_2 ight)$	$^{\mathrm{C}}$
qu8_2213	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{u}_1\gamma^\mu T^Au_3 ight)$	С
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	$\left(ar{q}_2\gamma_{\mu}T^Aq_2 ight)\left(ar{u}_2\gamma^{\mu}T^Au_3 ight)$	С
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	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_1\gamma^\mu T^Au_1 ight)$	С
qu8_2312	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_1\gamma^\mu T^Au_2 ight)$	$\mathbf{C}$
qu8_2313	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_1\gamma^\mu T^Au_3 ight)$	$\mathbf{C}$
qu8_2321	$\left\langle ar{q}_2\gamma_\mu T^Aq_3 ight angle \left\langle ar{u}_2\gamma^\mu T^Au_1 ight angle$	$\mathbf{C}$
qu8_2322	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_2 ight)$	$\mathbf{C}$
qu8_2323	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_3 ight)$	C
qu8_2331	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_3\gamma^\mu T^Au_1 ight)$	C
qu8_2332	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_3\gamma^\mu T^Au_2 ight)$	C
qu8_2333	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{u}_3\gamma^\mu T^Au_3 ight)$	$\mathbf{C}$
qu8_3311	$\left( ar{q}_3 \gamma_\mu T^A q_3 \right) \left( ar{u}_1 \gamma^\mu T^A u_1 \right)$	R
qu8_3312	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_2 ight)$	С
qu8_3313	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_1\gamma^{\mu}T^Au_3 ight)$	$\mathbf{C}$
qu8_3322	$\left(ar{q}_3\gamma_{\mu}T^Aq_3 ight)\left(ar{u}_2\gamma^{\mu}T^Au_2 ight)$	R
qu8_3323	$\left(ar{q}_3\gamma_\mu T^Aq_3 ight)\left(ar{u}_2\gamma^\mu T^Au_3 ight)$	$\mathbf{C}$
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	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_1\gamma^\mu T^Ad_1 ight)$	R
qd8_1112	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	С
qd8_1113	$\left(ar{q}_1\gamma_{\mu}T^Aq_1 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_3 ight)$	$\mathbf{C}$
qd8_1122	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_2\gamma^\mu T^Ad_2 ight)$	${ m R}$
qd8_1123	$\left(ar{q}_1\gamma_\mu T^Aq_1 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	С
qd8_1133	$\left( ar{q}_1 \gamma_\mu T^A q_1 \right) \left( ar{d}_3 \gamma^\mu T^A d_3 \right)$	$\mathbf{R}$
qd8_1211	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_1 ight)$	$^{\mathrm{C}}$
qd8_1212	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_2 ight)$	$\mathbf{C}$
qd8_1213	$\left\langle ar{q}_{1}\gamma_{\mu}T^{A}q_{2} ight angle \left\langle ar{d}_{1}\gamma^{\mu}T^{A}d_{3} ight angle$	$\mathbf{C}$
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	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_2\gamma^\mu T^Ad_2 ight)$	$\mathbf{C}$
qd8_1223	$\left(ar{q}_1\gamma_{\mu}T^Aq_2 ight)\left(ar{d}_2\gamma^{\mu}T^Ad_3 ight)$	C
qd8_1231	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_3\gamma^\mu T^Ad_1 ight)$	$^{\mathrm{C}}$
qd8_1232	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_3\gamma^\mu T^Ad_2 ight)$	$\dot{ ext{C}}$
qd8_1233	$\left(ar{q}_1\gamma_\mu T^Aq_2 ight)\left(ar{d}_3\gamma^\mu T^Ad_3 ight)$	$\dot{ ext{C}}$
qd8_1311	$egin{pmatrix} (ar{q}_1\gamma_\mu T^Aq_3) & (ar{d}_1\gamma^\mu T^Ad_1) \end{pmatrix}$	$\dot{ ext{C}}$
qd8_1312	$egin{pmatrix} (q_1)'''^{} & q_3 \end{pmatrix} ig(ar{d}_1 \gamma^{\mu} T^A d_2ig) \ ig(ar{d}_1 \gamma^{\mu} T^A d_2ig) \end{pmatrix}$	$\overset{\circ}{\mathrm{C}}$
1	(11 /µ = 10) (-1 / = ~2)	ě.

WC name	Operator	Type
qd8_1313	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_1\gamma^{\mu}T^Ad_3 ight)$	C
qd8_1321	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{d}_2\gamma^\mu T^Ad_1 ight)$	C
qd8_1322	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{d}_2\gamma^\mu T^Ad_2 ight)$	C
qd8_1323	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	C
qd8_1331	$\left(ar{q}_1\gamma_{\mu}T^Aq_3 ight)\left(ar{d}_3\gamma^{\mu}T^Ad_1 ight)$	С
qd8_1332	$\left(ar{q}_1\gamma_\mu T^Aq_3 ight)\left(ar{d}_3\gamma^\mu T^Ad_2 ight)$	C
qd8_1333	$egin{pmatrix} (ar{q}_1\gamma_\mu T^Aq_3) & (ar{d}_3\gamma^\mu T^Ad_3) \end{pmatrix}$	C
qd8_2211	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_1 ight)$	R
qd8_2212	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_1\gamma^\mu T^Ad_2 ight)$	С
qd8_2213	$egin{pmatrix} (ar{q}_2\gamma_\mu T^Aq_2) & (ar{d}_1\gamma^\mu T^Ad_3) \end{pmatrix}$	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	$\left(ar{q}_2\gamma_\mu T^Aq_2 ight)\left(ar{d}_2\gamma^\mu T^Ad_3 ight)$	C
qd8_2233	$\left(\bar{q}_2\gamma_\mu T^Aq_2\right)\left(\bar{d}_3\gamma^\mu T^Ad_3\right)$	R
qd8_2311	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{d}_1\gamma^\mu T^Ad_1 ight)$	$\mathbf{C}$
qd8_2312	$\left(ar{q}_2\gamma_\mu T^Aq_3\right)\left(ar{d}_1\gamma^\mu T^Ad_2\right)$	$^{\mathrm{C}}$
qd8_2313	$\left(ar{q}_2\gamma_\mu T^Aq_3 ight)\left(ar{d}_1\gamma^\mu T^Ad_3 ight)$	$\mathbf{C}$
qd8_2321	$\left(ar{q}_2\gamma_\mu T^Aq_3\right)\left(ar{d}_2\gamma^\mu T^Ad_1 ight)$	$\mathbf{C}$
qd8_2322	$\left\langle ar{q}_2\gamma_\mu T^Aq_3 ight angle \left\langle ar{d}_2\gamma^\mu T^Ad_2 ight angle$	$\mathbf{C}$
qd8_2323	$(\bar{q}_2\gamma_\mu T^Aq_3)(\bar{d}_2\gamma^\mu T^Ad_3)$	$\mathbf{C}$
qd8_2331	$\left(ar{q}_2\gamma_\mu T^Aq_3\right)\left(ar{d}_3\gamma^\mu T^Ad_1\right)$	$\mathbf{C}$
qd8_2332	$\left\langle ar{q}_2 \gamma_\mu T^A q_3 \right\rangle \left\langle ar{d}_3 \gamma^\mu T^A d_2 \right\rangle$	$\mathbf{C}$
qd8_2333	$(\bar{q}_2\gamma_\mu T^A q_3)(\bar{d}_3\gamma^\mu T^A d_3)$	$\mathbf{C}$
qd8_3311	$(\bar{q}_3\gamma_\mu T^Aq_3)(\bar{d}_1\gamma^\mu T^Ad_1)$	${ m R}$
qd8_3312	$(\bar{q}_3\gamma_{\mu}T^Aq_3)(\bar{d}_1\gamma^{\mu}T^Ad_2)$	$\mathbf{C}$
qd8_3313	$\left(\bar{q}_3\gamma_\mu T^Aq_3\right)\left(\bar{d}_1\gamma^\mu T^Ad_3\right)$	$\mathbf{C}$
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	$(\bar{q}_3\gamma_{\mu}T^Aq_3)(\bar{d}_2\gamma^{\mu}T^Ad_3)$	$^{\mathrm{C}}$
qd8_3333	$\left(\bar{q}_3\gamma_\mu T^Aq_3\right)\left(\bar{d}_3\gamma^\mu T^Ad_3\right)$	R
ledq_1111	$(ar{\ell}_1 e_1) \; (ar{d}_1 q_1)$	$\mathbf{C}$
ledq_1112	$ig(ar{\ell}_1 e_1ig)ig(ar{d}_1 q_2ig)$	$^{\mathrm{C}}$
ledq_1113	$ig(ar{\ell}_1 e_1ig) ig(ar{d}_1 q_3ig)$	$^{\mathrm{C}}$
ledq_1121	$ig(ar{\ell}_1 e_1ig)ig(ar{d}_2 q_1ig)$	$\mathbf{C}$
ledq_1122	$ig(ar{\ell}_1 e_1ig)ig(ar{d}_2 q_2ig)$	$\mathbf{C}$
ledq_1123	$ig(ar{\ell}_1 e_1ig)ig(ar{d}_2 q_3ig)$	$^{\mathrm{C}}$
ledq_1131	$\left(ar{\ell}_1e_1 ight)\left(ar{d}_3q_1 ight)$	$\mathbf{C}$
ledq_1132	$ig(ar{\ell}_1 e_1ig) ig(ar{d}_3 q_2ig)$	$\mathbf{C}$
ledq_1133	$ig(ar{\ell}_1 e_1ig)ig(ar{d}_3 q_3ig)$	$^{\mathrm{C}}$
ledq_1211	$ig(ar{\ell}_1e_2ig)ig(ar{d}_1q_1ig)$	$\mathbf{C}$
ledq_1212	$\left(\ell_1e_2 ight)\left(d_1q_2 ight)$	$^{\mathrm{C}}$
ledq_1213	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_1q_3 ight)$	$\mathbf{C}$
ledq_1221	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_2q_1 ight)$	$^{\mathrm{C}}$
ledq_1222	$\left(ar{\ell}_1 e_2 ight)\left(ar{d}_2 q_2 ight)$	$^{\mathrm{C}}$

WC name	Operator	Type
ledq_1223	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_2q_3 ight)$	C
ledq_1231	$ig(ar{\ell}_1e_2ig)ig(ar{d}_3q_1ig)$	C
ledq_1232	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_3q_2 ight)$	$^{\mathrm{C}}$
ledq_1233	$\left(ar{\ell}_1e_2 ight)\left(ar{d}_3q_3 ight)$	$^{\mathrm{C}}$
ledq_1311	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_1 ight)$	C
ledq_1312	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_2 ight)$	C
ledq_1313	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_1q_3 ight)$	$^{\mathrm{C}}$
ledq_1321	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_1 ight)$	$^{\mathrm{C}}$
ledq_1322	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_2 ight)$	C
ledq_1323	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_2q_3 ight)$	C
ledq_1331	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_3q_1 ight)$	C
ledq_1332	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_3q_2 ight)$	C
ledq_1333	$\left(ar{\ell}_1e_3 ight)\left(ar{d}_3q_3 ight)$	C
ledq_2111	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_1 q_1 ight)$	C
ledq_2112	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_1 q_2 ight)$	$^{\mathrm{C}}$
ledq_2113	$\left(ar{\ell}_{2}e_{1} ight)\left(ar{d}_{1}q_{3} ight)$	C
ledq_2121	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_2 q_1 ight)$	$^{\mathrm{C}}$
ledq_2122	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_2 q_2 ight)$	C
ledq_2123	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_2 q_3 ight)$	$^{\mathrm{C}}$
ledq_2131	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_3 q_1 ight)$	$^{\mathrm{C}}$
ledq_2132	$\left(ar{\ell}_{2}e_{1} ight)\left(ar{d}_{3}q_{2} ight)$	$\mathbf{C}$
ledq_2133	$\left(ar{\ell}_2 e_1 ight)\left(ar{d}_3 q_3 ight)$	$^{\mathrm{C}}$
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	$\left(ar{\ell}_{2}e_{2} ight)\left(ar{d}_{1}q_{3} ight)$	$^{\mathrm{C}}$
ledq_2221	$\left(ar{\ell}_{2}e_{2} ight)\left(ar{d}_{2}q_{1} ight)$	$\mathbf{C}$
ledq_2222	$\left(\ell_{2}e_{2} ight)\left(d_{2}q_{2} ight)$	$\mathbf{C}$
ledq_2223	$\left(ar{\ell}_{2}e_{2} ight)\left(ar{d}_{2}q_{3} ight)$	$\mathbf{C}$
ledq_2231	$\left(ar{\ell}_{2}e_{2} ight)\left(ar{d}_{3}q_{1} ight)$	$\mathbf{C}$
ledq_2232	$\left(\ell_{2}e_{2} ight)\left(d_{3}q_{2} ight)$	$\mathbf{C}$
ledq_2233	$\left(\ell_{2}e_{2} ight)\left(d_{3}q_{3} ight)$	$^{\mathrm{C}}$
ledq_2311	$\left(ar{\ell}_{2}e_{3} ight)\left(ar{d}_{1}q_{1} ight)$	$\mathbf{C}$
ledq_2312	$\left(ar{\ell}_{2}e_{3} ight)\left(ar{d}_{1}q_{2} ight)$	$\mathbf{C}$
ledq_2313	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_1 q_3 ight)$	$\mathbf{C}$
ledq_2321	$\left(\ell_2 e_3\right) \left(d_2 q_1 ight)$	$^{\mathrm{C}}$
ledq_2322	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_2 q_2 ight)$	$\mathbf{C}$
ledq_2323	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_2 q_3 ight)$	$^{\mathrm{C}}$
ledq_2331	$\left(ar{\ell}_2 e_3 ight)\left(ar{d}_3 q_1 ight)$	$^{\mathrm{C}}$
ledq_2332	$\left(ar{\ell}_{2}e_{3} ight)\left(ar{d}_{3}q_{2} ight)$	$^{\mathrm{C}}$
ledq_2333	$\left(ar{\ell}_{2}e_{3} ight)\left(ar{d}_{3}q_{3} ight)$	$\mathbf{C}$
ledq_3111	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_1q_1 ight)$	$\mathbf{C}$
ledq_3112	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_1 q_2 ight)$	С

WC name	Operator	Type
ledq_3113	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_1q_3 ight)$	С
ledq_3121	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_2 q_1 ight)$	$\mathbf{C}$
ledq_3122	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_2q_2 ight)$	$^{\mathrm{C}}$
ledq_3123	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_2q_3 ight)$	$^{\mathrm{C}}$
ledq_3131	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_3q_1 ight)$	$^{\mathrm{C}}$
ledq_3132	$\left(ar{\ell}_3e_1 ight)\left(ar{d}_3q_2 ight)$	$^{\mathrm{C}}$
ledq_3133	$\left(ar{\ell}_3 e_1 ight)\left(ar{d}_3 q_3 ight)$	$^{\mathrm{C}}$
ledq_3211	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_1 q_1 ight)$	$^{\mathrm{C}}$
ledq_3212	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_1 q_2 ight)$	$^{\mathrm{C}}$
ledq_3213	$ig(ar{\ell}_3 e_2ig)ig(ar{d}_1 q_3ig)$	$^{\mathrm{C}}$
ledq_3221	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_2 q_1 ight)$	$^{\mathrm{C}}$
ledq_3222	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_2 q_2 ight)$	$\mathbf{C}$
ledq_3223	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_2 q_3 ight)$	$^{\mathrm{C}}$
ledq_3231	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_3 q_1 ight)$	$^{\mathrm{C}}$
ledq_3232	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_3 q_2 ight)$	$^{\mathrm{C}}$
ledq_3233	$\left(ar{\ell}_3 e_2 ight)\left(ar{d}_3 q_3 ight)$	$^{\mathrm{C}}$
ledq_3311	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_1q_1 ight)$	$\mathbf{C}$
ledq_3312	$\left( ar{\ell}_3 e_3  ight) \left( ar{d}_1 q_2  ight)$	$^{\mathrm{C}}$
ledq_3313	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_1q_3 ight)$	$^{\mathrm{C}}$
ledq_3321	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_2q_1 ight)$	$^{\mathrm{C}}$
ledq_3322	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_2q_2 ight)$	$^{\mathrm{C}}$
ledq_3323	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_2q_3 ight)$	$^{\mathrm{C}}$
ledq_3331	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_1 ight)$	$^{\mathrm{C}}$
ledq_3332	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_2 ight)$	$\mathbf{C}$
ledq_3333	$\left(ar{\ell}_3e_3 ight)\left(ar{d}_3q_3 ight)$	$^{\mathrm{C}}$
quqd1_1111	$\left(ar{q}_{1}u_{1} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$\mathbf{C}$
quqd1_1112	$\left(\bar{q}_1 u_1\right) \epsilon_{jk} \left(\bar{q}_1 d_2\right)$	$\mathbf{C}$
quqd1_1113	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_1d_3)$	C
quqd1_1121	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_2d_1)$	C
quqd1_1122	$(ar{q}_1u_1)\epsilon_{jk}(ar{q}_2d_2)$	C
quqd1_1123	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_2d_3)$	C
quqd1_1131	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_3d_1)$	C
quqd1_1132	$(\bar{q}_1u_1)\epsilon_{jk}(\bar{q}_3d_2)$	C C
quqd1_1133 quqd1_1211	$(\bar{q}_1 u_1) \epsilon_{jk} (\bar{q}_3 d_3)$	C
quqd1_1211 quqd1_1212	$egin{aligned} \left(ar{q}_1 u_2 ight) \epsilon_{jk} \left(ar{q}_1 d_1 ight) \ \left(ar{q}_1 u_2 ight) \epsilon_{jk} \left(ar{q}_1 d_2 ight) \end{aligned}$	C
quqd1_1212	$(q_1u_2)\epsilon_{jk}(q_1u_2) \ (ar{q}_1u_2)\epsilon_{jk}(ar{q}_1d_3)$	C
quqd1_1211 quqd1_1221	$(q_1u_2)\epsilon_{jk}(q_1u_3) \ (ar q_1u_2)\epsilon_{jk}(ar q_2d_1)$	C
quqd1_1222	$(\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_2u_1) \ (\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_2d_2)$	$\overset{\circ}{\mathrm{C}}$
quqd1_1223	$(\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_2u_2) \ (\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_2d_3)$	$\overset{\circ}{\mathrm{C}}$
quqd1_1231	$(\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_2u_3) \ (\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_3d_1)$	$\overset{\circ}{\mathrm{C}}$
quqd1_1232	$(\bar{q}_1u_2) \epsilon_{jk} (\bar{q}_3d_2)$	Č
quqd1_1233	$(\bar{q}_1u_2)\epsilon_{jk}(\bar{q}_3d_3)$	$\dot{ ext{C}}$
	(- / J.: (** */	

WC name	Operator	Type
quqd1_1311	$(ar{q}_1u_3)\epsilon_{jk}(ar{q}_1d_1)$	С
quqd1_1312	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	$\mathbf{C}$
quqd1_1313	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	$\mathbf{C}$
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	$\left(ar{q}_{1}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	$^{\mathrm{C}}$
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	$\left(ar{q}_{2}u_{1} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	$\mathbf{C}$
quqd1_2133	$\left( ar{q}_{2}u_{1} ight) \epsilon_{jk}\left( ar{q}_{3}d_{3} ight)$	$\mathbf{C}$
quqd1_2211	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$\mathbf{C}$
quqd1_2212	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	$\mathbf{C}$
quqd1_2213	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	$\mathbf{C}$
quqd1_2221	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	$\mathbf{C}$
quqd1_2222	$\left(ar{q}_{2}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	$\mathbf{C}$
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	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{2} ight)$	C
quqd1_2313	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	C
quqd1_2321	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	C
quqd1_2322	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{2} ight)$	C
quqd1_2323	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{2}d_{3} ight)$	C
quqd1_2331	$(ar{q}_2 u_3)\epsilon_{jk}(ar{q}_3 d_1)$	C
quqd1_2332	$\left(ar{q}_{2}u_{3} ight)\epsilon_{jk}\left(ar{q}_{3}d_{2} ight)$	C
quqd1_2333	$(ar{q}_2u_3)\epsilon_{jk}(ar{q}_3d_3)$	C
quqd1_3111	$(\bar{q}_3 u_1)  \epsilon_{jk}  (\bar{q}_1 d_1)$	$\stackrel{ ext{C}}{\sim}$
quqd1_3112	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_1d_2)$	$_{\rm C}$
quqd1_3113	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_1d_3)$	С
quqd1_3121	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_2d_1)$	С
quqd1_3122	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_2d_2)$	С
quqd1_3123	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_2d_3)$	$_{\rm C}$
quqd1_3131	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_3d_1)$	С
quqd1_3132	$\left(\bar{q}_{3}u_{1}\right)\epsilon_{jk}\left(\bar{q}_{3}d_{2}\right)$	С

WC name	Operator	Type
quqd1_3133	$(\bar{q}_3u_1)\epsilon_{jk}(\bar{q}_3d_3)$	C
quqd1_3211	$\left(ar{q}_{3}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$\mathbf{C}$
quqd1_3212	$(ar{q}_3u_2)\epsilon_{jk}(ar{q}_1d_2)$	$\mathbf{C}$
quqd1_3213	$\left(ar{q}_{3}u_{2} ight)\epsilon_{jk}\left(ar{q}_{1}d_{3} ight)$	$\mathbf{C}$
quqd1_3221	$\left(ar{q}_{3}u_{2} ight)\epsilon_{jk}\left(ar{q}_{2}d_{1} ight)$	$\mathbf{C}$
quqd1_3222	$(ar{q}_3u_2)\epsilon_{jk}(ar{q}_2d_2)$	$\mathbf{C}$
quqd1_3223	$(ar{q}_3u_2)\epsilon_{jk}(ar{q}_2d_3)$	$\mathbf{C}$
quqd1_3231	$\left( ar{q}_{3}u_{2} ight) \epsilon_{jk}\left( ar{q}_{3}d_{1} ight)$	$\mathbf{C}$
quqd1_3232	$\left( ar{q}_{3}u_{2} ight) \epsilon_{jk}\left( ar{q}_{3}d_{2} ight)$	$\mathbf{C}$
quqd1_3233	$\left( ar{q}_{3}u_{2} ight) \epsilon_{jk}\left( ar{q}_{3}d_{3} ight)$	$\mathbf{C}$
quqd1_3311	$\left(ar{q}_{3}u_{3} ight)\epsilon_{jk}\left(ar{q}_{1}d_{1} ight)$	$\mathbf{C}$
quqd1_3312	$\left( ar{q}_{3}u_{3} ight) \epsilon_{jk}\left( ar{q}_{1}d_{2} ight)$	$\mathbf{C}$
quqd1_3313	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_1d_3)$	$\mathbf{C}$
quqd1_3321	$\left( ar{q}_{3}u_{3} ight) \epsilon_{jk}\left( ar{q}_{2}d_{1} ight)$	$\mathbf{C}$
quqd1_3322	$\left( ar{q}_{3}u_{3} ight) \epsilon_{jk}\left( ar{q}_{2}d_{2} ight)$	$\mathbf{C}$
quqd1_3323	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_2d_3)$	$\mathbf{C}$
quqd1_3331	$(\bar{q}_3 u_3)  \epsilon_{jk}  (\bar{q}_3 d_1)$	$\mathbf{C}$
quqd1_3332	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_3d_2)$	$\mathbf{C}$
quqd1_3333	$(\bar{q}_3u_3)\epsilon_{jk}(\bar{q}_3d_3)$	$\mathbf{C}$
quqd8_1111	$\left( ar{q}_1 T^A u_1 \right) \epsilon_{jk} \left( ar{q}_1 T^A d_1 \right)$	$\mathbf{C}$
quqd8_1112	$\left( ar{q}_1 T^A u_1 \right) \epsilon_{jk} \left( ar{q}_1 T^A d_2 \right)$	$\mathbf{C}$
quqd8_1113	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	$\mathbf{C}$
quqd8_1121	$\left(ar{q}_1 T^A_{} u_1 ight) \epsilon_{jk} \left(ar{q}_2 T^A_{} d_1 ight)$	$\mathbf{C}$
quqd8_1122	$\left(ar{q}_1 T^A u_1 ight) \epsilon_{jk} \left(ar{q}_2 T^A d_2 ight)$	$\mathbf{C}$
quqd8_1123	$\left(ar{q}_1 T^A u_1 ight) \epsilon_{jk} \left(ar{q}_2 T^A d_3 ight)$	$\mathbf{C}$
quqd8_1131	$\left(ar{q}_1 T^A_{} u_1 ight) \epsilon_{jk} \left(ar{q}_3 T^A_{} d_1 ight)$	$\mathbf{C}$
quqd8_1132	$\left(ar{q}_1 T^A u_1 ight) \epsilon_{jk} \left(ar{q}_3 T^A d_2 ight)$	$\mathbf{C}$
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	$\left(ar{q}_1 T^A u_2 ight) \epsilon_{jk} \left(ar{q}_1 T^A d_2 ight)$	$\mathbf{C}$
quqd8_1213	$\left(ar{q}_1 T^A u_2\right) \epsilon_{jk} \left(ar{q}_1 T^A d_3\right)$	$\mathbf{C}$
quqd8_1221	$\left(ar{q}_1 T^A u_2 ight) \epsilon_{jk} \left(ar{q}_2 T^A d_1 ight)$	$\mathbf{C}$
quqd8_1222	$\left(ar{q}_1 T^A u_2 ight) \epsilon_{jk} \left(ar{q}_2 T^A d_2 ight)$	$\mathbf{C}$
quqd8_1223	$\left(ar{q}_1 T^A_{} u_2 ight) \epsilon_{jk} \left(ar{q}_2 T^A_{} d_3 ight)$	$\mathbf{C}$
quqd8_1231	$\left( ar{q}_1 T^A u_2 \right) \epsilon_{jk} \left( ar{q}_3 T^A d_1 \right)$	$\mathbf{C}$
quqd8_1232	$\left(ar{q}_1 T^A_{} u_2\right) \epsilon_{jk} \left(ar{q}_3 T^A_{} d_2\right)$	$\mathbf{C}$
quqd8_1233	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	$\mathbf{C}$
quqd8_1311	$\left(ar{q}_1 T^A u_3 ight) \epsilon_{jk} \left(ar{q}_1 T^A d_1 ight)$	$\mathbf{C}$
quqd8_1312	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	$\mathbf{C}$
quqd8_1313	$\left(ar{q}_1 T^A u_3\right) \epsilon_{jk} \left(ar{q}_1 T^A d_3\right)$	C
quqd8_1321	$\left(ar{q}_1 T^A_{} u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A_{} d_1\right)$	С
quqd8_1322	$\left(ar{q}_1 T^A u_3 ight) \epsilon_{jk} \left(ar{q}_2 T^A d_2 ight)$	С
quqd8_1323	$\left(ar{q}_1 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_3\right)$	С
quqd8_1331	$\left(ar{q}_1 T^A u_3\right) \epsilon_{jk} \left(ar{q}_3 T^A d_1\right)$	С

WC name	Operator	Type
quqd8_1332	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	$^{\mathrm{C}}$
quqd8_1333	$\left( ar{q}_1 T^A u_3 \right) \epsilon_{jk} \left( ar{q}_3 T^A d_3 \right)$	$\mathbf{C}$
quqd8_2111	$\left\langle ar{q}_{2}T^{A}u_{1} ight angle \epsilon_{jk}\left\langle ar{q}_{1}T^{A}d_{1} ight angle$	$\mathbf{C}$
quqd8_2112	$\left\langle ar{q}_{2}T^{A}u_{1} ight angle \epsilon_{jk}\left\langle ar{q}_{1}T^{A}d_{2} ight angle$	$\mathbf{C}$
quqd8_2113	$\left\langle ar{q}_2 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_1 T^A d_3 \right angle$	$\mathbf{C}$
quqd8_2121	$\left\langle ar{q}_{2}T^{A}u_{1} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{1} ight angle$	$\mathbf{C}$
quqd8_2122	$\left\langle \bar{q}_2 T^A u_1 \right\rangle \epsilon_{jk} \left\langle \bar{q}_2 T^A d_2 \right\rangle$	$\mathbf{C}$
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	$\left\langle ar{q}_2 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_3 T^A d_2  ight angle$	$\mathbf{C}$
quqd8_2133	$\left\langle ar{q}_2 T^A u_1 \right angle \epsilon_{jk} \left\langle ar{q}_3 T^A d_3 \right angle$	$^{\mathrm{C}}$
quqd8_2211	$\left(ar{q}_2 T^A u_2 ight) \epsilon_{jk} \left(ar{q}_1 T^A d_1 ight)$	$\mathbf{C}$
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	$\left\langle ar{q}_{2}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{1} ight angle$	$\mathbf{C}$
quqd8_2222	$\left\langle ar{q}_{2}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{2} ight angle$	$\mathbf{C}$
quqd8_2223	$\left(ar{q}_2 T^A u_2\right) \epsilon_{jk} \left(ar{q}_2 T^A d_3\right)$	$^{\mathrm{C}}$
quqd8_2231	$\left(ar{q}_2 T^A u_2\right) \epsilon_{jk} \left(ar{q}_3 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_2232	$\left(ar{q}_2 T^A u_2\right) \epsilon_{jk} \left(ar{q}_3 T^A d_2\right)$	$^{\mathrm{C}}$
quqd8_2233	$\left(ar{q}_2 T^A u_2\right) \epsilon_{jk} \left(ar{q}_3 T^A d_3\right)$	$^{\mathrm{C}}$
quqd8_2311	$(\bar{q}_2 T^A u_3) \epsilon_{jk} (\bar{q}_1 T^A d_1)$	$^{\mathrm{C}}$
quqd8_2312	$\left( ar{q}_{2}T^{A}u_{3} ight) \epsilon_{jk}\left( ar{q}_{1}T^{A}d_{2} ight)$	$^{\mathrm{C}}$
quqd8_2313	$\left( ar{q}_{2}T^{A}u_{3} ight) \epsilon_{jk}\left( ar{q}_{1}T^{A}d_{3} ight)$	$^{\mathrm{C}}$
quqd8_2321	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_2322	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_2\right)$	$^{\mathrm{C}}$
quqd8_2323	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_2 T^A d_3\right)$	$^{\mathrm{C}}$
quqd8_2331	$\left(ar{q}_2 T^A u_3\right) \epsilon_{jk} \left(ar{q}_3 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_2332	$(\bar{q}_2 T^A u_3) \epsilon_{jk} (\bar{q}_3 T^A d_2)$	$^{\mathrm{C}}$
quqd8_2333	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	$\mathbf{C}$
quqd8_3111	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	$^{\mathrm{C}}$
quqd8_3112	$\left( ar{q}_{3}T^{A}u_{1} ight) \epsilon_{jk}\left( ar{q}_{1}T^{A}d_{2} ight)$	$\mathbf{C}$
quqd8_3113	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	$\mathbf{C}$
quqd8_3121	$\left(ar{q}_3 T^A u_1\right) \epsilon_{jk} \left(ar{q}_2 T^A d_1\right)$	$\mathbf{C}$
quqd8_3122	$\left( ar{q}_{3}T^{A}u_{1} ight) \epsilon_{jk}\left( ar{q}_{2}T^{A}d_{2} ight)$	$\mathbf{C}$
quqd8_3123	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	$\mathbf{C}$
quqd8_3131	$\left( ar{q}_3 T^A u_1 \right) \epsilon_{jk} \left( ar{q}_3 T^A d_1 \right)$	$\mathbf{C}$
quqd8_3132	$\left( ar{q}_3 T^A u_1 \right) \epsilon_{jk} \left( ar{q}_3 T^A d_2 \right)$	$\mathbf{C}$
quqd8_3133	$\left( ar{q}_3 T^A u_1 \right) \epsilon_{jk} \left( ar{q}_3 T^A d_3 \right)$	$\mathbf{C}$
quqd8_3211	$\left(ar{q}_3 T^A u_2\right) \epsilon_{jk} \left(ar{q}_1 T^A d_1\right)$	$\mathbf{C}$
quqd8_3212	$\left( ar{q}_{3}T^{A}u_{2} ight) \epsilon_{jk}\left( ar{q}_{1}T^{A}d_{2} ight)$	$\mathbf{C}$
quqd8_3213	$\left\langle ar{q}_{3}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{1}T^{A}d_{3} ight angle$	$\mathbf{C}$
quqd8_3221	$\left\langle ar{q}_{3}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{1} ight angle$	$\mathbf{C}$
quqd8_3222	$\left(ar{q}_3 T^A u_2\right) \epsilon_{jk} \left(ar{q}_2 T^A d_2\right)$	$\mathbf{C}$
quqd8_3223	$\left\langle ar{q}_{3}T^{A}u_{2} ight angle \epsilon_{jk}\left\langle ar{q}_{2}T^{A}d_{3} ight angle$	$^{\mathrm{C}}$
quqd8_3223	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	$^{\mathrm{C}}$

$\begin{array}{llllllllllllllllllllllllllllllllllll$	WC name	Operator	Type
$\begin{array}{llllllllllllllllllllllllllllllllllll$		$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	
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$\begin{array}{c} \text{quqd8\_3331} & \langle \bar{q}_3 T^A u_3 \rangle  \epsilon_{jk}  \langle \bar{q}_3 T^A d_1 \rangle \\ \text{quqd8\_3332} & \langle \bar{q}_3 T^A u_3 \rangle  \epsilon_{jk}  \langle \bar{q}_3 T^A d_2 \rangle \\ \text{quqd8\_3333} & \langle \bar{q}_3 T^A u_3 \rangle  \epsilon_{jk}  \langle \bar{q}_3 T^A d_3 \rangle \\ \text{lequ1\_1111} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_1 u_1 \rangle \\ \text{lequ1\_1112} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_1 u_1 \rangle \\ \text{lequ1\_1113} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_1 \rangle \\ \text{lequ1\_1122} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_1 \rangle \\ \text{lequ1\_1123} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1131} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1131} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_2 \rangle \\ \text{lequ1\_1132} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_2 \rangle \\ \text{lequ1\_1133} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_2 \rangle \\ \text{lequ1\_1133} & \langle \bar{l}_1 e_1 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_2 \rangle \\ \text{lequ1\_1214} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_1 u_1 \rangle \\ \text{lequ1\_1215} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_1 u_2 \rangle \\ \text{lequ1\_1216} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_1 u_3 \rangle \\ \text{lequ1\_1217} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1218} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_1 \rangle \\ \text{lequ1\_1222} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1223} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1223} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_3 \rangle \\ \text{lequ1\_1233} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_2 \rangle \\ \text{lequ1\_1233} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_3 \rangle \\ \text{lequ1\_1311} & \langle \bar{l}_1 e_2 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_2 \rangle \\ \text{lequ1\_1312} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_1 u_1 \rangle \\ \text{lequ1\_1313} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_1 u_2 \rangle \\ \text{lequ1\_1313} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1313} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1313} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1313} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1313} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_2 \rangle \\ \text{lequ1\_1323} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_3 \rangle \\ \text{lequ1\_1333} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_3 u_3 \rangle \\ \text{lequ1\_1333} & \langle \bar{l}_1 e_3 \rangle  \epsilon_{jk}  \langle \bar{q}_2 u_3 \rangle \\ lequ1\_1$		>	
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$(\ell_2 e_1) \epsilon_{jk} (q_1 u_3) $ C			
	1equ1_2113	$(\ell_2 e_1) \epsilon_{jk} (q_1 u_3)$	C

WC name	Operator	Type
lequ1_2121	$\left(ar{\ell}_2 e_1 ight)\epsilon_{jk}\left(ar{q}_2 u_1 ight)$	$^{\rm C}$
lequ1_2122	$(ar{\ell}_2 e_1) \epsilon_{jk} (ar{q}_2 u_2)$	$\mathbf{C}$
lequ1_2123	$(ar{\ell}_2 e_1) \epsilon_{jk} (ar{q}_2 u_3)$	$\mathbf{C}$
lequ1_2131	$(\bar{\ell}_2 e_1) \epsilon_{jk} (\bar{q}_3 u_1)$	$\mathbf{C}$
lequ1_2132	$(\bar{\ell}_2 e_1) \epsilon_{jk} (\bar{q}_3 u_2)$	$\mathbf{C}$
lequ1_2133	$(ar{\ell}_2 e_1) \epsilon_{jk} (\bar{\ell}_3 u_3)$	$\mathbf{C}$
lequ1_2211	$(ar{\ell}_2 e_2)  \epsilon_{jk}  (ar{q}_1 u_1)$	$\mathbf{C}$
lequ1_2212	$(ar{\ell}_2 e_2) \epsilon_{jk} (ar{q}_1 u_2)$	$\mathbf{C}$
lequ1_2213	$(ar\ell_2 e_2)  \epsilon_{jk}  (ar q_1 u_3)$	$\mathbf{C}$
lequ1_2221	$(ar{\ell}_2 e_2) \epsilon_{jk} (ar{q}_2 u_1) \ (ar{\ell}_2 e_2) \epsilon_{jk} (ar{q}_2 u_1)$	$\mathbf{C}$
lequ1_2222	$(ar{\ell}_2 e_2) \epsilon_{jk} (ar{q}_2 u_2)$	$\mathbf{C}$
lequ1_2223	$(ar\ell_2 e_2)  \epsilon_{jk}  (ar\ell_2 e_2) \ (ar\ell_2 e_3)  \epsilon_{jk}  (arq_2 u_3)$	$\mathbf{C}$
lequ1_2231	$(\bar{\ell}_2 e_2) \epsilon_{jk} (\bar{q}_3 u_1)$	$\mathbf{C}$
lequ1_2232	$(\bar{\ell}_2 e_2) \epsilon_{jk} (\bar{q}_3 u_2)$	$\mathbf{C}$
lequ1_2233	$(\bar{\ell}_2 e_2) \epsilon_{jk} (\bar{q}_3 u_3)$	$\mathbf{C}$
lequ1_2311	$(ar{\ell}_2 e_3) \epsilon_{jk} (ar{q}_1 u_1)$	$\mathbf{C}$
lequ1_2312	$(\bar{\ell}_2 e_3) \epsilon_{jk} (\bar{q}_1 u_2)$	$\mathbf{C}$
lequ1_2313	$(\bar{\ell}_2 e_3) \epsilon_{jk} (\bar{q}_1 u_3)$	$\mathbf{C}$
lequ1_2321	$(ar{\ell}_2 e_3)  \epsilon_{jk}  (ar{q}_2 u_1)$	$\mathbf{C}$
lequ1_2322	$(ar{\ell}_2 e_3) \epsilon_{jk} (ar{q}_2 u_2)$	$\mathbf{C}$
lequ1_2323	$(\bar{\ell}_2 e_3) \epsilon_{jk} (\bar{q}_2 u_3)$	$\mathbf{C}$
lequ1_2331	$(\bar{\ell}_2 e_3) \epsilon_{jk} (\bar{q}_3 u_1)$	$\mathbf{C}$
lequ1_2332	$(\bar{\ell}_2 e_3) \epsilon_{jk} (\bar{q}_3 u_2)$	$\mathbf{C}$
lequ1_2333	$(\bar{\ell}_2 e_3) \epsilon_{jk} (\bar{q}_3 u_3)$	$\mathbf{C}$
lequ1_3111	$(ar{\ell}_3 e_1)  \epsilon_{jk}  (ar{q}_1 u_1)$	$\mathbf{C}$
lequ1_3112	$(ar{\ell}_3 e_1)  \epsilon_{jk}  (ar{q}_1 u_2)$	$\mathbf{C}$
lequ1_3113	$(\bar{\ell}_3 e_1) \epsilon_{jk} (\bar{q}_1 u_3)$	$\mathbf{C}$
lequ1_3121	$(ar{\ell}_3 e_1)  \epsilon_{jk}  (ar{q}_2 u_1)$	$\mathbf{C}$
lequ1_3122	$(ar{\ell}_3 e_1)  \epsilon_{jk}  (ar{q}_2 u_2)$	$\mathbf{C}$
lequ1_3123	$(ar{\ell}_3 e_1)  \epsilon_{jk}  (ar{q}_2 u_3)$	$\mathbf{C}$
lequ1_3131	$(\bar{\ell}_3 e_1) \epsilon_{jk} (\bar{q}_3 u_1)$	$\mathbf{C}$
lequ1_3132	$(ar{\ell}_3 e_1)  \epsilon_{jk}  (ar{q}_3 u_2)$	$\mathbf{C}$
lequ1_3133	$(ar{\ell}_3 e_1)  \epsilon_{jk}  (ar{q}_3 u_3)$	$\mathbf{C}$
lequ1_3211	$(ar{\ell}_3 e_2)  \epsilon_{jk}  (ar{q}_1 u_1)$	$\mathbf{C}$
lequ1_3212	$(ar{\ell}_3 e_2)\epsilon_{jk}(ar{q}_1 u_2)$	$\mathbf{C}$
lequ1_3213	$\left(ar{\ell}_{3}e_{2} ight)\epsilon_{jk}\left(ar{q}_{1}u_{3} ight)$	$\mathbf{C}$
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	$(\bar{\ell}_3 e_2) \epsilon_{jk} (\bar{q}_3 u_1)$	$\mathbf{C}$
lequ1_3232	$(ar{\ell}_3 e_2)  \epsilon_{jk}  (ar{q}_3 u_2)$	$\mathbf{C}$
lequ1_3233	$\left(ar{\ell}_{3}e_{2} ight)\epsilon_{jk}\left(ar{q}_{3}u_{3} ight)$	$\mathbf{C}$

WC name	Operator	Type
lequ1_3311	$\left(ar{\ell}_3e_3 ight)\epsilon_{jk}\left(ar{q}_1u_1 ight)$	C
lequ1_3312	$(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_1 u_2)$	$\mathbf{C}$
lequ1_3313	$(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_1 u_3)$	$\mathbf{C}$
lequ1_3321	$(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_2 u_1)$	$\mathbf{C}$
lequ1_3322	$(ar{\ell}_3 e_3) \epsilon_{jk} (ar{q}_2 u_2)$	$\mathbf{C}$
lequ1_3323	$(ar{\ell}_3 e_3)  \epsilon_{jk}  (ar{q}_2 u_3)$	$\mathbf{C}$
lequ1_3331	$(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_3 u_1)$	$\mathbf{C}$
lequ1_3332	$(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_3 u_2)$	$\mathbf{C}$
lequ1_3333	$(\bar{\ell}_3 e_3) \epsilon_{jk} (\bar{q}_3 u_3)$	$\mathbf{C}$
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	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	$\mathbf{C}$
lequ3_1131	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	$\mathbf{C}$
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	$\left(ar{\ell}_1\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	$\mathbf{C}$
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	$\left(\bar{\ell}_1\sigma_{\mu u}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu u}u_2\right)$	$\mathbf{C}$
lequ3_1213	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_3\right)$	$\mathbf{C}$
lequ3_1221	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	$\mathbf{C}$
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	$\left(ar{\ell}_1\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_1 ight)$	$\mathbf{C}$
lequ3_1232	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_2\right)$	$\mathbf{C}$
lequ3_1233	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_3\right)$	$\mathbf{C}$
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	$\left(\bar{\ell}_1\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)$	$\mathbf{C}$
lequ3_1313	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_3\right)$	$\mathbf{C}$
lequ3_1321	$\left(\bar{\ell}_1 \sigma_{\mu  u} e_3\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu  u} u_1\right)$	$\mathbf{C}$
lequ3_1322	$\left(ar{\ell}_1\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	$\mathbf{C}$
lequ3_1323	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_3\right)$	$\mathbf{C}$
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	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_3\right)$	$\mathbf{C}$
lequ3_2111	$\left(\ell_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	$\mathbf{C}$
lequ3_2112	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_2\right)$	$\mathbf{C}$
lequ3_2113	$\left(\bar{\ell}_2 \sigma_{\mu  u} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu  u} u_3\right)$	$\mathbf{C}$
lequ3_2121	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	$\mathbf{C}$
lequ3_2122	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_2 ight)$	$\mathbf{C}$
lequ3_2123	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	$\mathbf{C}$

$\begin{array}{llllllllllllllllllllllllllllllllllll$	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2132	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	$\mathbf{C}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2133	$\left(ar{\ell}_2\sigma_{\mu u}e_1 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_3 ight)$	
$\begin{array}{c} \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_2) \\ \operatorname{lequ3} 2223 & (\bar{\ell}_2 \sigma_{\mu\nu} e_2)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2223 & (\bar{\ell}_2 \sigma_{\mu\nu} e_2)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3} 2232 & (\bar{\ell}_2 \sigma_{\mu\nu} e_2)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3} 2233 & (\bar{\ell}_2 \sigma_{\mu\nu} e_2)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3} 2233 & (\bar{\ell}_2 \sigma_{\mu\nu} e_2)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_2) \\ \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} 2312 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_1 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2321 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2322 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3} 2322 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3} 2323 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2331 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_1) \\ \operatorname{lequ3} 2332 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2333 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2333 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2333 & (\bar{\ell}_2 \sigma_{\mu\nu} e_3)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2331 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2311 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 2311 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 3112 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_1 \sigma^{\mu\nu} u_2) \\ \operatorname{lequ3} 3112 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 3121 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 3121 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 3211 & (\bar{\ell}_3 \sigma_{\mu\nu} e_1)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 3221 & (\bar{\ell}_3 \sigma_{\mu\nu} e_2)  \epsilon_{jk}  (\bar{q}_1 \sigma^{\mu\nu} u_3) \\ \operatorname{lequ3} 3222 & (\bar{\ell}_3 \sigma_{\mu\nu} e_2)  $	lequ3_2211	$\left(\ell_2 \sigma_{\mu  u} e_2\right) \epsilon_{jk} \left( \bar{q}_1 \sigma^{\mu  u} u_1 \right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2212	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2213	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_3 ight)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2221	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_1 ight)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2222	$\left(\ell_2 \sigma_{\mu  u} e_2\right) \epsilon_{jk} \left(ar{q}_2 \sigma^{\mu  u} u_2\right)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2223	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_2\sigma^{\mu u}u_3 ight)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2231	$\left(\ell_2 \sigma_{\mu  u} e_2\right) \epsilon_{jk} \left( \bar{q}_3 \sigma^{\mu  u} u_1 \right)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2232	$\left(ar{\ell}_2\sigma_{\mu u}e_2 ight)\epsilon_{jk}\left(ar{q}_3\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2233	$(\bar{\ell}_2 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$	$^{\mathrm{C}}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2311	$\left(ar{\ell}_2\sigma_{\mu u}e_3 ight)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_1 ight)$	$^{\mathrm{C}}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lequ3_2312	$\left(ar{\ell}_2\sigma_{\mu u}e_3\right)\epsilon_{jk}\left(ar{q}_1\sigma^{\mu u}u_2 ight)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2313	$(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_3)$	$^{\mathrm{C}}$
lequ3_2322 $(\ell_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C         lequ3_2333 $(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ 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_23311 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$ C         lequ3_3112 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C         lequ3_3113 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C         lequ3_3121 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ C         lequ3_3122 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C         lequ3_3123 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ 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_3133 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C         lequ3_3211 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C         lequ3_3212 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C <td< td=""><td></td><td><math>(\bar{\ell}_2 \sigma_{\mu  u} e_3)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu  u} u_1)</math></td><td><math>^{\mathrm{C}}</math></td></td<>		$(\bar{\ell}_2 \sigma_{\mu  u} e_3)  \epsilon_{jk}  (\bar{q}_2 \sigma^{\mu  u} u_1)$	$^{\mathrm{C}}$
lequ3_2333 $(\ell_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ 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_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 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C         lequ3_3121 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$ C         lequ3_3122 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C         lequ3_3123 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ 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_3133 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$ C         lequ3_3211 $(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$ C         lequ3_3212 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C         lequ3_3221 $(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$ C	lequ3_2322	$(ar{\ell}_2 \sigma_{\mu  u} e_3)  \epsilon_{jk}  (ar{q}_2 \sigma^{\mu  u} u_2)$	$^{\mathrm{C}}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$		$(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_3)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2331	$(\bar{\ell}_2 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2332	$(\bar{\ell}_2 \sigma_{\mu  u} e_3)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu  u} u_2)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_2333	$(\bar{\ell}_2 \sigma_{\mu  u} e_3)  \epsilon_{jk}  (\bar{q}_3 \sigma^{\mu  u} u_3)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3111	$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu  u} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu  u} u_2)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3113	$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_3)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3121	$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_1)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu\nu} u_2)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu \nu} e_1) \epsilon_{jk} (\bar{q}_2 \sigma^{\mu \nu} u_3)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3131	$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_1)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3132	$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_2)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_1) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_1 \sigma^{\mu\nu} u_2)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_1 \sigma^{\mu\nu} u_3)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_2 \sigma^{\mu\nu} u_1)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lequ3_3222		$\mathbf{C}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_2 \sigma^{\mu\nu} u_3)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_3 \sigma^{\mu\nu} u_1)$	$\mathbf{C}$
lequ3_3233 $(\ell_3 \sigma_{\mu\nu} e_2) \epsilon_{jk} (\bar{q}_3 \sigma^{\mu\nu} u_3)$ C lequ3_3311 $(\bar{\ell}_3 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$ C lequ3_3312 $(\bar{\ell}_3 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C		$(\bar{\ell}_3 \sigma_{\mu\nu} e_2) \epsilon_{ik} (\bar{q}_3 \sigma^{\mu\nu} u_2)$	$^{\mathrm{C}}$
lequ3_3311 $(\bar{\ell}_3 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_1)$ C lequ3_3312 $(\bar{\ell}_3 \sigma_{\mu\nu} e_3) \epsilon_{jk} (\bar{q}_1 \sigma^{\mu\nu} u_2)$ C		$(\bar{\ell}_3\sigma_{\mu\nu}e_2)\epsilon_{ik}(\bar{q}_3\sigma^{\mu u}u_3)$	
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		$(\bar{\ell}_3\sigma_{\mu\nu}e_3)\epsilon_{ik}(\bar{q}_1\sigma^{\mu\nu}u_1)$	
	=	$(\bar{\ell}_3 \sigma_{\mu\nu} e_3) \epsilon_{ik} (\bar{q}_1 \sigma^{\mu\nu} u_2)$	
Iequ3_3313 $(\ell_3 \sigma_{\mu\nu} e_3) \epsilon_{jk} (q_1 \sigma^{\mu\nu} u_3)$ C	lequ3_3313	$(ar{\ell}_3\sigma_{\mu u}e_3)\epsilon_{jk}(ar{q}_1\sigma^{\mu u}u_3)$	$^{\mathrm{C}}$

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

## dB=dL=1

WC name	Operator	Type
duql_1111	$(d_1Cu_1)(q_1C\ell_1)$	С
duq1_1112	$\left(d_{1}Cu_{1}\right)\left(q_{1}C\ell_{2}\right)$	$\mathbf{C}$
duq1_1113	$\left(d_{1}Cu_{1}\right)\left(q_{1}C\ell_{3}\right)$	$\mathbf{C}$
duq1_1121	$\left(d_{1}Cu_{1}\right)\left(q_{2}C\ell_{1}\right)$	$\mathbf{C}$
duql_1122	$\left(d_{1}Cu_{1}\right)\left(q_{2}C\ell_{2}\right)$	$\mathbf{C}$
duq1_1123	$\left(d_{1}Cu_{1}\right)\left(q_{2}C\ell_{3}\right)$	$\mathbf{C}$
duq1_1131	$(d_1 C u_1) (q_3 C \ell_1)$	$\mathbf{C}$
duq1_1132	$(d_1Cu_1)(q_3C\ell_2)$	$^{\mathrm{C}}$
duq1_1133	$(d_1Cu_1)(q_3C\ell_3)$	$\mathbf{C}$
duq1_1211	$(d_1 C u_2) (q_1 C \ell_1)$	$\mathbf{C}$
duq1_1212	$(d_1 C u_2) (q_1 C \ell_2)$	$\mathbf{C}$
duq1_1213	$(d_1Cu_2)(q_1C\ell_3)$	$\mathbf{C}$
duq1_1221	$(d_1 C u_2) (q_2 C \ell_1)$	$\mathbf{C}$
duq1_1222	$(d_1 C u_2) (q_2 C \ell_2)$	$\mathbf{C}$
duq1_1223	$(d_1Cu_2)(q_2C\ell_3)$	$\mathbf{C}$
duq1_1231	$(d_1Cu_2)(q_3C\ell_1)$	$\mathbf{C}$
duq1_1232	$(d_1Cu_2)(q_3C\ell_2)$	$\mathbf{C}$
duq1_1233	$(d_1Cu_2)(q_3C\ell_3)$	$\mathbf{C}$
duq1_1311	$(d_1Cu_3)(q_1C\ell_1)$	$\mathbf{C}$
duq1_1312	$(d_1Cu_3)(q_1C\ell_2)$	$^{\mathrm{C}}$
duq1_1313	$(d_1Cu_3)(q_1C\ell_3)$	$\mathbf{C}$
duq1_1321	$\left(d_{1}Cu_{3}\right)\left(q_{2}C\ell_{1}\right)$	$\mathbf{C}$
duq1_1322	$(d_1Cu_3)(q_2C\ell_2)$	$\mathbf{C}$
duq1_1323	$\left(d_{1}Cu_{3}\right)\left(q_{2}C\ell_{3}\right)$	$\mathbf{C}$
duq1_1331	$(d_1Cu_3)(q_3C\ell_1)$	$\mathbf{C}$
duq1_1332	$(d_1Cu_3)(q_3C\ell_2)$	$\mathbf{C}$
duq1_1333	$(d_1Cu_3)(q_3C\ell_3)$	$\mathbf{C}$
duql_2111	$\left(d_{2}Cu_{1}\right)\left(q_{1}C\ell_{1}\right)$	$\mathbf{C}$
duq1_2112	$(d_2Cu_1)(q_1C\ell_2)$	$\mathbf{C}$
duq1_2113	$\left(d_{2}Cu_{1}\right)\left(q_{1}C\ell_{3}\right)$	$\mathbf{C}$
duq1_2121	$(d_2Cu_1)(q_2C\ell_1)$	$\mathbf{C}$
duq1_2122	$\left(d_{2}Cu_{1}\right)\left(q_{2}C\ell_{2}\right)$	$\mathbf{C}$

WC name	Operator	Type
duq1_2123	$(d_2Cu_1)(q_2C\ell_3)$	С
duq1_2131	$(d_2Cu_1)(q_3C\ell_1)$	$\mathbf{C}$
duq1_2132	$(d_2Cu_1)(q_3C\ell_2)$	$\mathbf{C}$
duq1_2133	$(d_2Cu_1)(q_3C\ell_3)$	$\mathbf{C}$
duq1_2211	$(d_2Cu_2)(q_1C\ell_1)$	$\mathbf{C}$
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	$\left(d_2Cu_2\right)\left(q_3C\ell_3\right)$	$\mathbf{C}$
duq1_2311	$\left(d_{2}Cu_{3}\right)\left(q_{1}C\ell_{1}\right)$	$\mathbf{C}$
duq1_2312	$(d_2Cu_3)(q_1C\ell_2)$	$^{\mathrm{C}}$
duq1_2313	$(d_2Cu_3)(q_1C\ell_3)$	$^{\mathrm{C}}$
duq1_2321	$(d_2Cu_3)(q_2C\ell_1)$	$^{\mathrm{C}}$
duq1_2322	$(d_2Cu_3)(q_2C\ell_2)$	$\mathbf{C}$
duq1_2323	$(d_2Cu_3)(q_2C\ell_3)$	$\mathbf{C}$
duq1_2331	$\left(d_{2}Cu_{3}\right)\left(q_{3}C\ell_{1}\right)$	$\mathbf{C}$
duq1_2332	$\left(d_{2}Cu_{3}\right)\left(q_{3}C\ell_{2}\right)$	$\mathbf{C}$
duq1_2333	$(d_2Cu_3)(q_3C\ell_3)$	$\mathbf{C}$
duq1_3111	$(d_3Cu_1)(q_1C\ell_1)$	C
duq1_3112	$(d_3Cu_1)(q_1C\ell_2)$	C
duq1_3113	$(d_3Cu_1)(q_1C\ell_3)$	C
duq1_3121	$(d_3Cu_1)(q_2C\ell_1)$	C
duq1_3122	$(d_3Cu_1)(q_2C\ell_2)$	C
duq1_3123	$(d_3Cu_1)(q_2C\ell_3)$	C
duq1_3131	$(d_3Cu_1)(q_3C\ell_1)$	С
duq1_3132	$(d_3Cu_1)(q_3C\ell_2)$	С
duq1_3133	$(d_3Cu_1)(q_3C\ell_3)$	С
duq1_3211	$(d_3Cu_2)(q_1C\ell_1)$	С
duq1_3212	$(d_3Cu_2)(q_1C\ell_2)$	С
duq1_3213	$(d_3Cu_2)(q_1C\ell_3)$	С
duq1_3221	$(d_3Cu_2)(q_2C\ell_1)$	С
duq1_3222	$(d_3Cu_2)(q_2C\ell_2)$	С
duq1_3223	$(d_3Cu_2)(q_2C\ell_3)$	С
duq1_3231	$(d_3Cu_2)(q_3C\ell_1)$	$_{\mathrm{C}}^{\mathrm{C}}$
duq1_3232	$(d_3Cu_2)(q_3C\ell_2)$	C
duql_3233	$(d_3Cu_2)(q_3C\ell_3)$	C
duql_3311	$(d_3Cu_3)(q_1C\ell_1)$	C
duql_3312	$(d_3Cu_3)(q_1C\ell_2)$	C
duql_3313	$(d_3Cu_3)(q_1C\ell_3)$	C
duq1_3321	$(d_3Cu_3)(q_2C\ell_1)$	C

WC name	Operator	Type
duq1_3322	$(d_3Cu_3)(q_2C\ell_2)$	С
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	$(q_1Cq_1)(u_1Ce_1)$	$\mathbf{C}$
qque_1112	$(q_1Cq_1)(u_1Ce_2)$	$\mathbf{C}$
qque_1113	$(q_1Cq_1)(u_1Ce_3)$	$\mathbf{C}$
qque_1121	$\left(q_1Cq_1\right)\left(u_2Ce_1\right)$	$\mathbf{C}$
qque_1122	$(q_1Cq_1)(u_2Ce_2)$	$\mathbf{C}$
qque_1123	$(q_1Cq_1)(u_2Ce_3)$	$\mathbf{C}$
qque_1131	$\left(q_{1}Cq_{1}\right)\left(u_{3}Ce_{1}\right)$	$\mathbf{C}$
qque_1132	$(q_1Cq_1)(u_3Ce_2)$	$\mathbf{C}$
qque_1133	$\left(q_{1}Cq_{1}\right)\left(u_{3}Ce_{3}\right)$	$\mathbf{C}$
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	$\left(q_{1}Cq_{2}\right)\left(u_{2}Ce_{1}\right)$	$\mathbf{C}$
qque_1222	$\left(q_{1}Cq_{2}\right)\left(u_{2}Ce_{2}\right)$	$\mathbf{C}$
qque_1223	$\left(q_{1}Cq_{2}\right)\left(u_{2}Ce_{3}\right)$	$\mathbf{C}$
qque_1231	$\left(q_{1}Cq_{2}\right)\left(u_{3}Ce_{1}\right)$	$\mathbf{C}$
qque_1232	$(q_1Cq_2)(u_3Ce_2)$	$\mathbf{C}$
qque_1233	$(q_1Cq_2)(u_3Ce_3)$	$\mathbf{C}$
qque_1311	$(q_1Cq_3)(u_1Ce_1)$	$\mathbf{C}$
qque_1312	$(q_1Cq_3)(u_1Ce_2)$	$\mathbf{C}$
qque_1313	$(q_1Cq_3)(u_1Ce_3)$	$\mathbf{C}$
qque_1321	$(q_1Cq_3)(u_2Ce_1)$	$\mathbf{C}$
qque_1322	$(q_1Cq_3)(u_2Ce_2)$	$\mathbf{C}$
qque_1323	$(q_1Cq_3)(u_2Ce_3)$	$\mathbf{C}$
qque_1331	$(q_1Cq_3)(u_3Ce_1)$	$\mathbf{C}$
qque_1332	$(q_1Cq_3)(u_3Ce_2)$	$\mathbf{C}$
qque_1333	$(q_1Cq_3)(u_3Ce_3)$	$\mathbf{C}$
qque_2211	$(q_2Cq_2)(u_1Ce_1)$	$\mathbf{C}$
qque_2212	$(q_2Cq_2)(u_1Ce_2)$	$\mathbf{C}$
qque_2213	$(q_2Cq_2)(u_1Ce_3)$	$\mathbf{C}$
qque_2221	$(q_2Cq_2)(u_2Ce_1)$	C
qque_2222	$(q_2Cq_2)(u_2Ce_2)$	$\stackrel{ ext{C}}{\sim}$
qque_2223	$(q_2Cq_2)(u_2Ce_3)$	$\stackrel{ ext{C}}{\sim}$
qque_2231	$(q_2Cq_2)(u_3Ce_1)$	$\stackrel{ ext{C}}{\sim}$
qque_2232	$(q_2Cq_2)(u_3Ce_2)$	$\stackrel{ ext{C}}{\sim}$
qque_2233	$(q_2Cq_2)(u_3Ce_3)$	С
qque_2311	$(q_2Cq_3)(u_1Ce_1)$	С
qque_2312	$(q_2Cq_3)(u_1Ce_2)$	С
qque_2313	$(q_2Cq_3)(u_1Ce_3)$	$\mathbf{C}$

WC name	Operator	Type
qque_2321	$(q_2Cq_3)(u_2Ce_1)$	С
qque_2322	$(q_2Cq_3)(u_2Ce_2)$	$\mathbf{C}$
qque_2323	$(q_2Cq_3)(u_2Ce_3)$	$\mathbf{C}$
qque_2331	$(q_2Cq_3)(u_3Ce_1)$	$\mathbf{C}$
qque_2332	$(q_2Cq_3)(u_3Ce_2)$	$\mathbf{C}$
qque_2333	$(q_2Cq_3)(u_3Ce_3)$	$\mathbf{C}$
qque_3311	$(q_3Cq_3)(u_1Ce_1)$	$\mathbf{C}$
qque_3312	$(q_3Cq_3)(u_1Ce_2)$	$\mathbf{C}$
qque_3313	$(q_3Cq_3)(u_1Ce_3)$	$\mathbf{C}$
qque_3321	$(q_3Cq_3)(u_2Ce_1)$	$\mathbf{C}$
qque_3322	$(q_3Cq_3)(u_2Ce_2)$	$\mathbf{C}$
qque_3323	$(q_3Cq_3)(u_2Ce_3)$	$\mathbf{C}$
qque_3331	$(q_3Cq_3)(u_3Ce_1)$	$\mathbf{C}$
qque_3332	$(q_3Cq_3)(u_3Ce_2)$	$\mathbf{C}$
qque_3333	$(q_3Cq_3)(u_3Ce_3)$	$\mathbf{C}$
qqql_1111	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{1}C\ell_{1}\right)$	$\mathbf{C}$
qqql_1112	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{1}C\ell_{2} ight)$	$\mathbf{C}$
qqql_1113	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{1}C\ell_{3} ight)$	$\mathbf{C}$
qqql_1121	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{2}C\ell_{1} ight)$	$\mathbf{C}$
qqql_1122	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{2}C\ell_{2} ight)$	$\mathbf{C}$
qqql_1123	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1} ight)\left(q_{2}C\ell_{3} ight)$	$\mathbf{C}$
qqql_1131	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{3}C\ell_{1}\right)$	$\mathbf{C}$
qqql_1132	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{3}C\ell_{2}\right)$	$\mathbf{C}$
qqql_1133	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{1}\right)\left(q_{3}C\ell_{3}\right)$	$\mathbf{C}$
qqql_1211	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{1}C\ell_{1}\right)$	$\mathbf{C}$
qqql_1212	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{1}C\ell_{2}\right)$	$\mathbf{C}$
qqql_1213	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{1}C\ell_{3}\right)$	$\mathbf{C}$
qqql_1221	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{1}\right)$	$\mathbf{C}$
qqql_1222	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{2}\right)$	$\mathbf{C}$
qqql_1223	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{2}C\ell_{3}\right)$	$\mathbf{C}$
qqql_1231	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{3}C\ell_{1}\right)$	$\mathbf{C}$
qqql_1232	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{3}C\ell_{2}\right)$	$\mathbf{C}$
qqql_1233	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{2}\right)\left(q_{3}C\ell_{3}\right)$	$\mathbf{C}$
qqql_1311	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{1}C\ell_{1}\right)$	$\mathbf{C}$
qqql_1312	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{1}C\ell_{2}\right)$	$\mathbf{C}$
qqql_1313	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{1}C\ell_{3}\right)$	C
qqql_1321	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{2}C\ell_{1}\right)$	$\stackrel{ ext{C}}{\sim}$
qqql_1322	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{2}C\ell_{2}\right)$	C
qqq1_1323	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{2}C\ell_{3}\right)$	C
qqql_1331	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{1}\right)$	$\stackrel{ ext{C}}{\sim}$
qqql_1332	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{2}\right)$	С
qqql_1333	$\epsilon_{il}\epsilon_{jk}\left(q_{1}Cq_{3}\right)\left(q_{3}C\ell_{3}\right)$	С
qqq1_2121	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1}\right)\left(q_{2}C\ell_{1}\right)$	С
qqq1_2122	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1}\right)\left(q_{2}C\ell_{2}\right)$	$\mathbf{C}$

WC name	Operator	Type
qqq1_2123	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{2}C\ell_{3} ight)$	C
qqq1_2131	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{1} ight)$	$\mathbf{C}$
qqql_2132	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{2} ight)$	$\mathbf{C}$
qqql_2133	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{1} ight)\left(q_{3}C\ell_{3} ight)$	$\mathbf{C}$
qqql_2221	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqq1_2222	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{2} ight)$	$\mathbf{C}$
qqq1_2223	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{2}C\ell_{3} ight)$	$\mathbf{C}$
qqql_2231	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{3}C\ell_{1} ight)$	$\mathbf{C}$
qqq1_2232	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqq1_2233	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{2} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_2311	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{1}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqql_2312	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3}\right)\left(q_{1}C\ell_{2}\right)$	$^{\mathrm{C}}$
qqql_2313	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{1}C\ell_{3} ight)$	$\mathbf{C}$
qqql_2321	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{2}C\ell_{1} ight)$	$\mathbf{C}$
qqq1_2322	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{2}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqq1_2323	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{2}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_2331	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{3}C\ell_{1} ight)$	$\mathbf{C}$
qqq1_2332	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{3}C\ell_{2} ight)$	$\mathbf{C}$
qqq1_2333	$\epsilon_{il}\epsilon_{jk}\left(q_{2}Cq_{3} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_3131	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{1} ight)$	$^{\mathrm{C}}$
qqql_3132	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{2} ight)$	$^{\mathrm{C}}$
qqql_3133	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{1} ight)\left(q_{3}C\ell_{3} ight)$	$^{\mathrm{C}}$
qqql_3231	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{2}\right)\left(q_{3}C\ell_{1}\right)$	$^{\mathrm{C}}$
qqq1_3232	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{2}\right)\left(q_{3}C\ell_{2}\right)$	$^{\mathrm{C}}$
qqq1_3233	$\epsilon_{il}\epsilon_{jk}\left(q_{3}Cq_{2}\right)\left(q_{3}C\ell_{3}\right)$	$^{\mathrm{C}}$
qqql_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	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{1}\right)$	$^{\mathrm{C}}$
duue_1112	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{2}\right)$	$^{\mathrm{C}}$
duue_1113	$\left(d_{1}Cu_{1}\right)\left(u_{1}Ce_{3}\right)$	$^{\mathrm{C}}$
duue_1121	$\left(d_{1}Cu_{1}\right)\left(u_{2}Ce_{1}\right)$	$^{\mathrm{C}}$
duue_1122	$\left(d_{1}Cu_{1}\right)\left(u_{2}Ce_{2}\right)$	$^{\mathrm{C}}$
duue_1123	$\left(d_{1}Cu_{1}\right)\left(u_{2}Ce_{3}\right)$	$^{\mathrm{C}}$
duue_1131	$\left(d_{1}Cu_{1}\right)\left(u_{3}Ce_{1}\right)$	$^{\mathrm{C}}$
duue_1132	$\left(d_{1}Cu_{1}\right)\left(u_{3}Ce_{2}\right)$	$\mathbf{C}$
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	$(d_1Cu_2)(u_2Ce_2)$	$\stackrel{ ext{C}}{\sim}$
duue_1223	$(d_1Cu_2)(u_2Ce_3)$	C
duue_1231	$\left(d_{1}Cu_{2}\right)\left(u_{3}Ce_{1}\right)$	$^{\mathrm{C}}$

WC name	Operator	Type
duue_1232	$(d_1Cu_2)(u_3Ce_2)$	С
duue_1233	$\left(d_{1}Cu_{2}\right)\left(u_{3}Ce_{3}\right)$	$^{\mathrm{C}}$
duue_1311	$\left(d_{1}Cu_{3}\right)\left(u_{1}Ce_{1}\right)$	$\mathbf{C}$
duue_1312	$\left(d_{1}Cu_{3}\right)\left(u_{1}Ce_{2}\right)$	$^{\mathrm{C}}$
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	$\left(d_{1}Cu_{3}\right)\left(u_{2}Ce_{2}\right)$	$\mathbf{C}$
duue_1323	$\left(d_{1}Cu_{3}\right)\left(u_{2}Ce_{3}\right)$	$\mathbf{C}$
duue_1331	$\left(d_{1}Cu_{3}\right)\left(u_{3}Ce_{1}\right)$	$\mathbf{C}$
duue_1332	$\left(d_{1}Cu_{3}\right)\left(u_{3}Ce_{2}\right)$	$\mathbf{C}$
duue_1333	$\left(d_{1}Cu_{3}\right)\left(u_{3}Ce_{3}\right)$	$\mathbf{C}$
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	$(d_2Cu_3)(u_3Ce_1)$	C
duue_2332	$(d_2Cu_3)(u_3Ce_2)$	$\stackrel{ ext{C}}{\sim}$
duue_2333	$(d_2Cu_3)(u_3Ce_3)$	$^{\mathrm{C}}$
duue_3111	$(d_3Cu_1)(u_1Ce_1)$	С
duue_3112	$(d_3Cu_1)(u_1Ce_2)$	С
duue_3113	$(d_3Cu_1)(u_1Ce_3)$	С
duue_3121	$(d_3Cu_1)(u_2Ce_1)$	С
duue_3122	$(d_3Cu_1)(u_2Ce_2)$	С
duue_3123	$(d_3Cu_1)(u_2Ce_3)$	С

WC name	Operator	Type
duue_3131	$(d_3Cu_1)(u_3Ce_1)$	C
duue_3132	$(d_3Cu_1)(u_3Ce_2)$	$\mathbf{C}$
duue_3133	$(d_3Cu_1)(u_3Ce_3)$	$^{\mathrm{C}}$
duue_3211	$(d_3Cu_2)(u_1Ce_1)$	$^{\mathrm{C}}$
duue_3212	$(d_3Cu_2)(u_1Ce_2)$	$^{\mathrm{C}}$
duue_3213	$\left(d_3Cu_2\right)\left(u_1Ce_3\right)$	$^{\mathrm{C}}$
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	$\left(d_3Cu_3\right)\left(u_1Ce_2\right)$	$^{\mathrm{C}}$
duue_3313	$\left(d_3Cu_3\right)\left(u_1Ce_3\right)$	$^{\mathrm{C}}$
duue_3321	$\left(d_3Cu_3\right)\left(u_2Ce_1\right)$	$^{\mathrm{C}}$
duue_3322	$\left(d_3Cu_3\right)\left(u_2Ce_2\right)$	$^{\mathrm{C}}$
duue_3323	$(d_3Cu_3)(u_2Ce_3)$	$^{\mathrm{C}}$
duue_3331	$(d_3Cu_3)(u_3Ce_1)$	$^{\mathrm{C}}$
duue_3332	$(d_3Cu_3)(u_3Ce_2)$	$^{\mathrm{C}}$
duue_3333	$(d_3Cu_3)(u_3Ce_3)$	$^{\mathrm{C}}$

## dL=2

WC name	Operator	Type
llphiphi_11	$\left(\widetilde{arphi}^{\dagger}\ell_{1} ight)_{-}^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{1} ight)$	C
llphiphi_12	$\left(\widetilde{arphi}^{\dagger}\ell_{1} ight)^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{2} ight)$	$\mathbf{C}$
llphiphi_13	$\left(\widetilde{arphi}^{\dagger}\ell_{1} ight)^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{3} ight)$	$^{\mathrm{C}}$
llphiphi_22	$\left(\widetilde{arphi}^{\dagger}\ell_{2} ight)^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{2} ight)$	$^{\mathrm{C}}$
llphiphi_23	$\left(\widetilde{arphi}^{\dagger}\ell_{2} ight)_{-}^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{3} ight)$	$\mathbf{C}$
llphiphi_33	$\left(\widetilde{arphi}^{\dagger}\ell_{3}\right)^{T}C\left(\widetilde{arphi}^{\dagger}\ell_{3}\right)$	$\mathbf{C}$