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	$f^{ABC} G_\mu^{A\nu} G_\nu^{B\rho} G_\rho^{C\mu}$	R
Gtilde	$f^{ABC} \widetilde{G}_\mu^{A\nu} G_\nu^{B\rho} G_\rho^{C\mu}$	R
W	$\epsilon^{IJK} W_\mu^{I\nu} W_\nu^{J\rho} W_\rho^{K\mu}$	R
Wtilde	$\epsilon^{IJK} \widetilde{W}_\mu^{I\nu} W_\nu^{J\rho} W_\rho^{K\mu}$	R
phi	$\left(\varphi^\dagger \varphi \right)^3$	R
phiBox	$\left(\varphi^\dagger \varphi \right) \Box \left(\varphi^\dagger \varphi \right)$	R
phiD	$\left(\varphi^\dagger D^\mu \varphi \right)^* \left(\varphi^\dagger D_\mu \varphi \right)$	R
phiG	$\varphi^\dagger \varphi G_{\mu\nu}^A G^{A\mu\nu}$	R
phiB	$\varphi^\dagger \varphi B_{\mu\nu} B^{\mu\nu}$	R
phiW	$\varphi^\dagger \varphi W_{\mu\nu}^I W^{I\mu\nu}$	R
phiWB	$\varphi^\dagger \tau^I \varphi W_{\mu\nu}^I B^{\mu\nu}$	R
phiGtilde	$\varphi^\dagger \varphi \widetilde{G}_{\mu\nu}^A G^{A\mu\nu}$	R
phiBtilde	$\varphi^\dagger \varphi \widetilde{B}_{\mu\nu} B^{\mu\nu}$	R
phiWtilde	$\varphi^\dagger \varphi \widetilde{W}_{\mu\nu}^I W^{I\mu\nu}$	R
phiWtildeB	$\varphi^\dagger \tau^I \varphi \widetilde{W}_{\mu\nu}^I B^{\mu\nu}$	R
uphi_11	$\left(\varphi^\dagger \varphi \right) \left(\bar{q}_1 u_1 \widetilde{\varphi} \right)$	C
uphi_12	$\left(\varphi^\dagger \varphi \right) \left(\bar{q}_1 u_2 \widetilde{\varphi} \right)$	C
uphi_13	$\left(\varphi^\dagger \varphi \right) \left(\bar{q}_1 u_3 \widetilde{\varphi} \right)$	C
uphi_21	$\left(\varphi^\dagger \varphi \right) \left(\bar{q}_2 u_1 \widetilde{\varphi} \right)$	C
uphi_22	$\left(\varphi^\dagger \varphi \right) \left(\bar{q}_2 u_2 \widetilde{\varphi} \right)$	C
uphi_23	$\left(\varphi^\dagger \varphi \right) \left(\bar{q}_2 u_3 \widetilde{\varphi} \right)$	C

WC name	Operator	Type
uphi_31	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_3 u_1 \widetilde{\varphi}\right)$	C
uphi_32	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_3 u_2 \widetilde{\varphi}\right)$	C
uphi_33	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_3 u_3 \widetilde{\varphi}\right)$	C
dphi_11	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_1 d_1 \varphi\right)$	C
dphi_12	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_1 d_2 \varphi\right)$	C
dphi_13	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_1 d_3 \varphi\right)$	C
dphi_21	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_2 d_1 \varphi\right)$	C
dphi_22	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_2 d_2 \varphi\right)$	C
dphi_23	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_2 d_3 \varphi\right)$	C
dphi_31	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_3 d_1 \varphi\right)$	C
dphi_32	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_3 d_2 \varphi\right)$	C
dphi_33	$\left(\varphi^\dagger\varphi\right)\left(\bar{q}_3 d_3 \varphi\right)$	C
ephi_11	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_1 e_1 \varphi\right)$	C
ephi_12	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_1 e_2 \varphi\right)$	C
ephi_13	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_1 e_3 \varphi\right)$	C
ephi_21	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_2 e_1 \varphi\right)$	C
ephi_22	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_2 e_2 \varphi\right)$	C
ephi_23	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_2 e_3 \varphi\right)$	C
ephi_31	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_3 e_1 \varphi\right)$	C
ephi_32	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_3 e_2 \varphi\right)$	C
ephi_33	$\left(\varphi^\dagger\varphi\right)\left(\bar{\ell}_3 e_3 \varphi\right)$	C
eW_11	$\left(\bar{\ell}_1 \sigma^{\mu\nu} e_1\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_12	$\left(\bar{\ell}_1 \sigma^{\mu\nu} e_2\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_13	$\left(\bar{\ell}_1 \sigma^{\mu\nu} e_3\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_21	$\left(\bar{\ell}_2 \sigma^{\mu\nu} e_1\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_22	$\left(\bar{\ell}_2 \sigma^{\mu\nu} e_2\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_23	$\left(\bar{\ell}_2 \sigma^{\mu\nu} e_3\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_31	$\left(\bar{\ell}_3 \sigma^{\mu\nu} e_1\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_32	$\left(\bar{\ell}_3 \sigma^{\mu\nu} e_2\right)\tau^I \varphi W^I_{\mu\nu}$	C
eW_33	$\left(\bar{\ell}_3 \sigma^{\mu\nu} e_3\right)\tau^I \varphi W^I_{\mu\nu}$	C
eB_11	$\left(\bar{\ell}_1 \sigma^{\mu\nu} e_1\right)\varphi B_{\mu\nu}$	C
eB_12	$\left(\bar{\ell}_1 \sigma^{\mu\nu} e_2\right)\varphi B_{\mu\nu}$	C
eB_13	$\left(\bar{\ell}_1 \sigma^{\mu\nu} e_3\right)\varphi B_{\mu\nu}$	C
eB_21	$\left(\bar{\ell}_2 \sigma^{\mu\nu} e_1\right)\varphi B_{\mu\nu}$	C
eB_22	$\left(\bar{\ell}_2 \sigma^{\mu\nu} e_2\right)\varphi B_{\mu\nu}$	C
eB_23	$\left(\bar{\ell}_2 \sigma^{\mu\nu} e_3\right)\varphi B_{\mu\nu}$	C
eB_31	$\left(\bar{\ell}_3 \sigma^{\mu\nu} e_1\right)\varphi B_{\mu\nu}$	C
eB_32	$\left(\bar{\ell}_3 \sigma^{\mu\nu} e_2\right)\varphi B_{\mu\nu}$	C
eB_33	$\left(\bar{\ell}_3 \sigma^{\mu\nu} e_3\right)\varphi B_{\mu\nu}$	C
uG_11	$\left(\bar{q}_1 \sigma^{\mu\nu} T^A u_1\right)\widetilde{\varphi} G^A_{\mu\nu}$	C
uG_12	$\left(\bar{q}_1 \sigma^{\mu\nu} T^A u_2\right)\widetilde{\varphi} G^A_{\mu\nu}$	C
uG_13	$\left(\bar{q}_1 \sigma^{\mu\nu} T^A u_3\right)\widetilde{\varphi} G^A_{\mu\nu}$	C

WC name	Operator	Type
uG_21	$\left(\bar{q}_2\sigma^{\mu\nu}T^A u_1\right)\widetilde{\varphi}G^A_{\mu\nu}$	C
uG_22	$\left(\bar{q}_2\sigma^{\mu\nu}T^A u_2\right)\widetilde{\varphi}G^A_{\mu\nu}$	C
uG_23	$\left(\bar{q}_2\sigma^{\mu\nu}T^A u_3\right)\widetilde{\varphi}G^A_{\mu\nu}$	C
uG_31	$\left(\bar{q}_3\sigma^{\mu\nu}T^A u_1\right)\widetilde{\varphi}G^A_{\mu\nu}$	C
uG_32	$\left(\bar{q}_3\sigma^{\mu\nu}T^A u_2\right)\widetilde{\varphi}G^A_{\mu\nu}$	C
uG_33	$\left(\bar{q}_3\sigma^{\mu\nu}T^A u_3\right)\widetilde{\varphi}G^A_{\mu\nu}$	C
uW_11	$\left(\bar{q}_1\sigma^{\mu\nu}u_1\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_12	$\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_13	$\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_21	$\left(\bar{q}_2\sigma^{\mu\nu}u_1\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_22	$\left(\bar{q}_2\sigma^{\mu\nu}u_2\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_23	$\left(\bar{q}_2\sigma^{\mu\nu}u_3\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_31	$\left(\bar{q}_3\sigma^{\mu\nu}u_1\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_32	$\left(\bar{q}_3\sigma^{\mu\nu}u_2\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uW_33	$\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)\tau^I\widetilde{\varphi}W^I_{\mu\nu}$	C
uB_11	$\left(\bar{q}_1\sigma^{\mu\nu}u_1\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_12	$\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_13	$\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_21	$\left(\bar{q}_2\sigma^{\mu\nu}u_1\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_22	$\left(\bar{q}_2\sigma^{\mu\nu}u_2\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_23	$\left(\bar{q}_2\sigma^{\mu\nu}u_3\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_31	$\left(\bar{q}_3\sigma^{\mu\nu}u_1\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_32	$\left(\bar{q}_3\sigma^{\mu\nu}u_2\right)\widetilde{\varphi}B_{\mu\nu}$	C
uB_33	$\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)\widetilde{\varphi}B_{\mu\nu}$	C
dG_11	$\left(\bar{q}_1\sigma^{\mu\nu}T^A d_1\right)\varphi G^A_{\mu\nu}$	C
dG_12	$\left(\bar{q}_1\sigma^{\mu\nu}T^A d_2\right)\varphi G^A_{\mu\nu}$	C
dG_13	$\left(\bar{q}_1\sigma^{\mu\nu}T^A d_3\right)\varphi G^A_{\mu\nu}$	C
dG_21	$\left(\bar{q}_2\sigma^{\mu\nu}T^A d_1\right)\varphi G^A_{\mu\nu}$	C
dG_22	$\left(\bar{q}_2\sigma^{\mu\nu}T^A d_2\right)\varphi G^A_{\mu\nu}$	C
dG_23	$\left(\bar{q}_2\sigma^{\mu\nu}T^A d_3\right)\varphi G^A_{\mu\nu}$	C
dG_31	$\left(\bar{q}_3\sigma^{\mu\nu}T^A d_1\right)\varphi G^A_{\mu\nu}$	C
dG_32	$\left(\bar{q}_3\sigma^{\mu\nu}T^A d_2\right)\varphi G^A_{\mu\nu}$	C
dG_33	$\left(\bar{q}_3\sigma^{\mu\nu}T^A d_3\right)\varphi G^A_{\mu\nu}$	C
dW_11	$\left(\bar{q}_1\sigma^{\mu\nu}d_1\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_12	$\left(\bar{q}_1\sigma^{\mu\nu}d_2\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_13	$\left(\bar{q}_1\sigma^{\mu\nu}d_3\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_21	$\left(\bar{q}_2\sigma^{\mu\nu}d_1\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_22	$\left(\bar{q}_2\sigma^{\mu\nu}d_2\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_23	$\left(\bar{q}_2\sigma^{\mu\nu}d_3\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_31	$\left(\bar{q}_3\sigma^{\mu\nu}d_1\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_32	$\left(\bar{q}_3\sigma^{\mu\nu}d_2\right)\tau^I\varphi W^I_{\mu\nu}$	C
dW_33	$\left(\bar{q}_3\sigma^{\mu\nu}d_3\right)\tau^I\varphi W^I_{\mu\nu}$	C
dB_11	$\left(\bar{q}_1\sigma^{\mu\nu}d_1\right)\varphi B_{\mu\nu}$	C

WC name	Operator	Type
dB_12	$\left(\bar{q}_1\sigma^{\mu\nu}d_2\right)\varphi B_{\mu\nu}$	C
dB_13	$\left(\bar{q}_1\sigma^{\mu\nu}d_3\right)\varphi B_{\mu\nu}$	C
dB_21	$\left(\bar{q}_2\sigma^{\mu\nu}d_1\right)\varphi B_{\mu\nu}$	C
dB_22	$\left(\bar{q}_2\sigma^{\mu\nu}d_2\right)\varphi B_{\mu\nu}$	C
dB_23	$\left(\bar{q}_2\sigma^{\mu\nu}d_3\right)\varphi B_{\mu\nu}$	C
dB_31	$\left(\bar{q}_3\sigma^{\mu\nu}d_1\right)\varphi B_{\mu\nu}$	C
dB_32	$\left(\bar{q}_3\sigma^{\mu\nu}d_2\right)\varphi B_{\mu\nu}$	C
dB_33	$\left(\bar{q}_3\sigma^{\mu\nu}d_3\right)\varphi B_{\mu\nu}$	C
phil1_11	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{\ell}_1\gamma^\mu\ell_1\right)$	R
phil1_12	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{\ell}_1\gamma^\mu\ell_2\right)$	C
phil1_13	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{\ell}_1\gamma^\mu\ell_3\right)$	C
phil1_22	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{\ell}_2\gamma^\mu\ell_2\right)$	R
phil1_23	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{\ell}_2\gamma^\mu\ell_3\right)$	C
phil1_33	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{\ell}_3\gamma^\mu\ell_3\right)$	R
phil3_11	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}Imu\varphi\right)\left(\bar{\ell}_1\tau^I\gamma^\mu\ell_1\right)$	R
phil3_12	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}Imu\varphi\right)\left(\bar{\ell}_1\tau^I\gamma^\mu\ell_2\right)$	C
phil3_13	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}Imu\varphi\right)\left(\bar{\ell}_1\tau^I\gamma^\mu\ell_3\right)$	C
phil3_22	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}Imu\varphi\right)\left(\bar{\ell}_2\tau^I\gamma^\mu\ell_2\right)$	R
phil3_23	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}Imu\varphi\right)\left(\bar{\ell}_2\tau^I\gamma^\mu\ell_3\right)$	C
phil3_33	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}Imu\varphi\right)\left(\bar{\ell}_3\tau^I\gamma^\mu\ell_3\right)$	R
phie_11	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	R
phie_12	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
phie_13	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
phie_22	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	R
phie_23	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
phie_33	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R

WC name	Operator	Type
phiq1_11	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{q}_1\gamma^\mu q_1)$	R
phiq1_12	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{q}_1\gamma^\mu q_2)$	C
phiq1_13	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{q}_1\gamma^\mu q_3)$	C
phiq1_22	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{q}_2\gamma^\mu q_2)$	R
phiq1_23	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{q}_2\gamma^\mu q_3)$	C
phiq1_33	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{q}_3\gamma^\mu q_3)$	R
phiq3_11	$\left(\varphi^\dagger i\overleftrightarrow{D}Imu\varphi\right)(\bar{q}_1\tau^I\gamma^\mu q_1)$	R
phiq3_12	$\left(\varphi^\dagger i\overleftrightarrow{D}Imu\varphi\right)(\bar{q}_1\tau^I\gamma^\mu q_2)$	C
phiq3_13	$\left(\varphi^\dagger i\overleftrightarrow{D}Imu\varphi\right)(\bar{q}_1\tau^I\gamma^\mu q_3)$	C
phiq3_22	$\left(\varphi^\dagger i\overleftrightarrow{D}Imu\varphi\right)(\bar{q}_2\tau^I\gamma^\mu q_2)$	R
phiq3_23	$\left(\varphi^\dagger i\overleftrightarrow{D}Imu\varphi\right)(\bar{q}_2\tau^I\gamma^\mu q_3)$	C
phiq3_33	$\left(\varphi^\dagger i\overleftrightarrow{D}Imu\varphi\right)(\bar{q}_3\tau^I\gamma^\mu q_3)$	R
phiu_11	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{u}_1\gamma^\mu u_1)$	R
phiu_12	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{u}_1\gamma^\mu u_2)$	C
phiu_13	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{u}_1\gamma^\mu u_3)$	C
phiu_22	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{u}_2\gamma^\mu u_2)$	R
phiu_23	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{u}_2\gamma^\mu u_3)$	C
phiu_33	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{u}_3\gamma^\mu u_3)$	R
phid_11	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{d}_1\gamma^\mu d_1)$	R
phid_12	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{d}_1\gamma^\mu d_2)$	C
phid_13	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{d}_1\gamma^\mu d_3)$	C
phid_22	$\left(\varphi^\dagger i\overleftrightarrow{D}_\mu\varphi\right)(\bar{d}_2\gamma^\mu d_2)$	R

WC name	Operator	Type
phid_23	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
phid_33	$\left(\varphi^\dagger i\overset{\leftrightarrow}{D}_\mu\varphi\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
phiud_11	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_1\gamma^\mu d_1\right)$	C
phiud_12	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_1\gamma^\mu d_2\right)$	C
phiud_13	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_1\gamma^\mu d_3\right)$	C
phiud_21	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_2\gamma^\mu d_1\right)$	C
phiud_22	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_2\gamma^\mu d_2\right)$	C
phiud_23	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_2\gamma^\mu d_3\right)$	C
phiud_31	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_3\gamma^\mu d_1\right)$	C
phiud_32	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_3\gamma^\mu d_2\right)$	C
phiud_33	$\left(\widetilde{\varphi}^\dagger iD_\mu\varphi\right)\left(\bar{u}_3\gamma^\mu d_3\right)$	C
ll_1111	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{\ell}_1\gamma^\mu\ell_1\right)$	R
ll_1112	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{\ell}_1\gamma^\mu\ell_2\right)$	C
ll_1113	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{\ell}_1\gamma^\mu\ell_3\right)$	C
ll_1122	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{\ell}_2\gamma^\mu\ell_2\right)$	R
ll_1123	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{\ell}_2\gamma^\mu\ell_3\right)$	C
ll_1133	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{\ell}_3\gamma^\mu\ell_3\right)$	R
ll_1212	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_1\gamma^\mu\ell_2\right)$	C
ll_1213	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_1\gamma^\mu\ell_3\right)$	C
ll_1221	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_2\gamma^\mu\ell_1\right)$	R
ll_1222	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_2\gamma^\mu\ell_2\right)$	C
ll_1223	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_2\gamma^\mu\ell_3\right)$	C
ll_1231	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_3\gamma^\mu\ell_1\right)$	C
ll_1232	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_3\gamma^\mu\ell_2\right)$	C
ll_1233	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{\ell}_3\gamma^\mu\ell_3\right)$	C
ll_1313	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{\ell}_1\gamma^\mu\ell_3\right)$	C
ll_1322	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{\ell}_2\gamma^\mu\ell_2\right)$	C
ll_1323	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{\ell}_2\gamma^\mu\ell_3\right)$	C
ll_1331	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{\ell}_3\gamma^\mu\ell_1\right)$	R
ll_1332	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{\ell}_3\gamma^\mu\ell_2\right)$	C
ll_1333	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{\ell}_3\gamma^\mu\ell_3\right)$	C
ll_2222	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{\ell}_2\gamma^\mu\ell_2\right)$	R
ll_2223	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{\ell}_2\gamma^\mu\ell_3\right)$	C
ll_2233	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{\ell}_3\gamma^\mu\ell_3\right)$	R
ll_2323	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{\ell}_2\gamma^\mu\ell_3\right)$	C
ll_2332	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{\ell}_3\gamma^\mu\ell_2\right)$	R
ll_2333	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{\ell}_3\gamma^\mu\ell_3\right)$	C
ll_3333	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{\ell}_3\gamma^\mu\ell_3\right)$	R
qq1_1111	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{q}_1\gamma^\mu q_1\right)$	R
qq1_1112	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{q}_1\gamma^\mu q_2\right)$	C
qq1_1113	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{q}_1\gamma^\mu q_3\right)$	C

WC name	Operator	Type
qq1_1122	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{q}_2\gamma^\mu q_2)$	R
qq1_1123	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{q}_2\gamma^\mu q_3)$	C
qq1_1133	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{q}_3\gamma^\mu q_3)$	R
qq1_1212	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_1\gamma^\mu q_2)$	C
qq1_1213	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_1\gamma^\mu q_3)$	C
qq1_1221	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_2\gamma^\mu q_1)$	R
qq1_1222	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_2\gamma^\mu q_2)$	C
qq1_1223	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_2\gamma^\mu q_3)$	C
qq1_1231	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_3\gamma^\mu q_1)$	C
qq1_1232	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_3\gamma^\mu q_2)$	C
qq1_1233	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{q}_3\gamma^\mu q_3)$	C
qq1_1313	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{q}_1\gamma^\mu q_3)$	C
qq1_1322	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{q}_2\gamma^\mu q_2)$	C
qq1_1323	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{q}_2\gamma^\mu q_3)$	C
qq1_1331	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{q}_3\gamma^\mu q_1)$	R
qq1_1332	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{q}_3\gamma^\mu q_2)$	C
qq1_1333	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{q}_3\gamma^\mu q_3)$	C
qq1_2222	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{q}_2\gamma^\mu q_2)$	R
qq1_2223	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{q}_2\gamma^\mu q_3)$	C
qq1_2233	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{q}_3\gamma^\mu q_3)$	R
qq1_2323	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{q}_2\gamma^\mu q_3)$	C
qq1_2332	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{q}_3\gamma^\mu q_2)$	R
qq1_2333	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{q}_3\gamma^\mu q_3)$	C
qq1_3333	$(\bar{q}_3\gamma_\mu q_3)\,(\bar{q}_3\gamma^\mu q_3)$	R
qq3_1111	$(\bar{q}_1\gamma_\mu\tau^I q_1)\,(\bar{q}_1\gamma^\mu\tau^I q_1)$	R
qq3_1112	$(\bar{q}_1\gamma_\mu\tau^I q_1)\,(\bar{q}_1\gamma^\mu\tau^I q_2)$	C
qq3_1113	$(\bar{q}_1\gamma_\mu\tau^I q_1)\,(\bar{q}_1\gamma^\mu\tau^I q_3)$	C
qq3_1122	$(\bar{q}_1\gamma_\mu\tau^I q_1)\,(\bar{q}_2\gamma^\mu\tau^I q_2)$	R
qq3_1123	$(\bar{q}_1\gamma_\mu\tau^I q_1)\,(\bar{q}_2\gamma^\mu\tau^I q_3)$	C
qq3_1133	$(\bar{q}_1\gamma_\mu\tau^I q_1)\,(\bar{q}_3\gamma^\mu\tau^I q_3)$	R
qq3_1212	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_1\gamma^\mu\tau^I q_2)$	C
qq3_1213	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_1\gamma^\mu\tau^I q_3)$	C
qq3_1221	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_2\gamma^\mu\tau^I q_1)$	R
qq3_1222	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_2\gamma^\mu\tau^I q_2)$	C
qq3_1223	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_2\gamma^\mu\tau^I q_3)$	C
qq3_1231	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_3\gamma^\mu\tau^I q_1)$	C
qq3_1232	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_3\gamma^\mu\tau^I q_2)$	C
qq3_1233	$(\bar{q}_1\gamma_\mu\tau^I q_2)\,(\bar{q}_3\gamma^\mu\tau^I q_3)$	C
qq3_1313	$(\bar{q}_1\gamma_\mu\tau^I q_3)\,(\bar{q}_1\gamma^\mu\tau^I q_3)$	C
qq3_1322	$(\bar{q}_1\gamma_\mu\tau^I q_3)\,(\bar{q}_2\gamma^\mu\tau^I q_2)$	C
qq3_1323	$(\bar{q}_1\gamma_\mu\tau^I q_3)\,(\bar{q}_2\gamma^\mu\tau^I q_3)$	C
qq3_1331	$(\bar{q}_1\gamma_\mu\tau^I q_3)\,(\bar{q}_3\gamma^\mu\tau^I q_1)$	R
qq3_1332	$(\bar{q}_1\gamma_\mu\tau^I q_3)\,(\bar{q}_3\gamma^\mu\tau^I q_2)$	C
qq3_1333	$(\bar{q}_1\gamma_\mu\tau^I q_3)\,(\bar{q}_3\gamma^\mu\tau^I q_3)$	C

WC name	Operator	Type
qq3_2222	$\left(\bar{q}_2\gamma_\mu\tau^I q_2\right)\left(\bar{q}_2\gamma^\mu\tau^I q_2\right)$	R
qq3_2223	$\left(\bar{q}_2\gamma_\mu\tau^I q_2\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
qq3_2233	$\left(\bar{q}_2\gamma_\mu\tau^I q_2\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	R
qq3_2323	$\left(\bar{q}_2\gamma_\mu\tau^I q_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
qq3_2332	$\left(\bar{q}_2\gamma_\mu\tau^I q_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_2\right)$	R
qq3_2333	$\left(\bar{q}_2\gamma_\mu\tau^I q_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	C
qq3_3333	$\left(\bar{q}_3\gamma_\mu\tau^I q_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	R
lq1_1111	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{q}_1\gamma^\mu q_1\right)$	R
lq1_1112	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{q}_1\gamma^\mu q_2\right)$	C
lq1_1113	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{q}_1\gamma^\mu q_3\right)$	C
lq1_1122	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{q}_2\gamma^\mu q_2\right)$	R
lq1_1123	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{q}_2\gamma^\mu q_3\right)$	C
lq1_1133	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{q}_3\gamma^\mu q_3\right)$	R
lq1_1211	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_1\gamma^\mu q_1\right)$	C
lq1_1212	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_1\gamma^\mu q_2\right)$	C
lq1_1213	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_1\gamma^\mu q_3\right)$	C
lq1_1221	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_2\gamma^\mu q_1\right)$	C
lq1_1222	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_2\gamma^\mu q_2\right)$	C
lq1_1223	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_2\gamma^\mu q_3\right)$	C
lq1_1231	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_3\gamma^\mu q_1\right)$	C
lq1_1232	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_3\gamma^\mu q_2\right)$	C
lq1_1233	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{q}_3\gamma^\mu q_3\right)$	C
lq1_1311	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_1\right)$	C
lq1_1312	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_2\right)$	C
lq1_1313	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_3\right)$	C
lq1_1321	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_1\right)$	C
lq1_1322	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_2\right)$	C
lq1_1323	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_3\right)$	C
lq1_1331	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_3\gamma^\mu q_1\right)$	C
lq1_1332	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_3\gamma^\mu q_2\right)$	C
lq1_1333	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{q}_3\gamma^\mu q_3\right)$	C
lq1_2211	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{q}_1\gamma^\mu q_1\right)$	R
lq1_2212	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{q}_1\gamma^\mu q_2\right)$	C
lq1_2213	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{q}_1\gamma^\mu q_3\right)$	C
lq1_2222	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{q}_2\gamma^\mu q_2\right)$	R
lq1_2223	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{q}_2\gamma^\mu q_3\right)$	C
lq1_2233	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{q}_3\gamma^\mu q_3\right)$	R
lq1_2311	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_1\right)$	C
lq1_2312	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_2\right)$	C
lq1_2313	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_3\right)$	C
lq1_2321	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_1\right)$	C
lq1_2322	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_2\right)$	C

WC name	Operator	Type
lq1_2323	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_3\right)$	C
lq1_2331	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_3\gamma^\mu q_1\right)$	C
lq1_2332	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_3\gamma^\mu q_2\right)$	C
lq1_2333	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{q}_3\gamma^\mu q_3\right)$	C
lq1_3311	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_1\right)$	R
lq1_3312	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_2\right)$	C
lq1_3313	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{q}_1\gamma^\mu q_3\right)$	C
lq1_3322	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_2\right)$	R
lq1_3323	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{q}_2\gamma^\mu q_3\right)$	C
lq1_3333	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{q}_3\gamma^\mu q_3\right)$	R
lq3_1111	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_1\right)\left(\bar{q}_1\gamma^\mu\tau^I q_1\right)$	R
lq3_1112	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_1\right)\left(\bar{q}_1\gamma^\mu\tau^I q_2\right)$	C
lq3_1113	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_1\right)\left(\bar{q}_1\gamma^\mu\tau^I q_3\right)$	C
lq3_1122	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_1\right)\left(\bar{q}_2\gamma^\mu\tau^I q_2\right)$	R
lq3_1123	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_1\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
lq3_1133	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_1\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	R
lq3_1211	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_1\gamma^\mu\tau^I q_1\right)$	C
lq3_1212	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_1\gamma^\mu\tau^I q_2\right)$	C
lq3_1213	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_1\gamma^\mu\tau^I q_3\right)$	C
lq3_1221	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_2\gamma^\mu\tau^I q_1\right)$	C
lq3_1222	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_2\gamma^\mu\tau^I q_2\right)$	C
lq3_1223	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
lq3_1231	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_3\gamma^\mu\tau^I q_1\right)$	C
lq3_1232	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_3\gamma^\mu\tau^I q_2\right)$	C
lq3_1233	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	C
lq3_1311	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_1\right)$	C
lq3_1312	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_2\right)$	C
lq3_1313	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_3\right)$	C
lq3_1321	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_1\right)$	C
lq3_1322	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_2\right)$	C
lq3_1323	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
lq3_1331	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_1\right)$	C
lq3_1332	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_2\right)$	C
lq3_1333	$\left(\bar{\ell}_1\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	C
lq3_2211	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_1\gamma^\mu\tau^I q_1\right)$	R
lq3_2212	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_1\gamma^\mu\tau^I q_2\right)$	C
lq3_2213	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_1\gamma^\mu\tau^I q_3\right)$	C
lq3_2222	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_2\gamma^\mu\tau^I q_2\right)$	R
lq3_2223	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
lq3_2233	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_2\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	R
lq3_2311	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_1\right)$	C
lq3_2312	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_2\right)$	C

9

WC name	Operator	Type
lq3_2313	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_3\right)$	C
lq3_2321	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_1\right)$	C
lq3_2322	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_2\right)$	C
lq3_2323	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
lq3_2331	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_1\right)$	C
lq3_2332	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_2\right)$	C
lq3_2333	$\left(\bar{\ell}_2\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	C
lq3_3311	$\left(\bar{\ell}_3\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_1\right)$	R
lq3_3312	$\left(\bar{\ell}_3\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_2\right)$	C
lq3_3313	$\left(\bar{\ell}_3\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_1\gamma^\mu\tau^I q_3\right)$	C
lq3_3322	$\left(\bar{\ell}_3\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_2\right)$	R
lq3_3323	$\left(\bar{\ell}_3\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_2\gamma^\mu\tau^I q_3\right)$	C
lq3_3333	$\left(\bar{\ell}_3\gamma_\mu\tau^I\ell_3\right)\left(\bar{q}_3\gamma^\mu\tau^I q_3\right)$	R
ee_1111	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	R
ee_1112	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
ee_1113	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
ee_1122	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	R
ee_1123	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
ee_1133	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R
ee_1212	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
ee_1213	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
ee_1222	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	C
ee_1223	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
ee_1232	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{e}_3\gamma^\mu e_2\right)$	C
ee_1233	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	C
ee_1313	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
ee_1323	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
ee_1333	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	C
ee_2222	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	R
ee_2223	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
ee_2233	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R
ee_2323	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
ee_2333	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	C
ee_3333	$\left(\bar{e}_3\gamma_\mu e_3\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R
uu_1111	$\left(\bar{u}_1\gamma_\mu u_1\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	R
uu_1112	$\left(\bar{u}_1\gamma_\mu u_1\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
uu_1113	$\left(\bar{u}_1\gamma_\mu u_1\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
uu_1122	$\left(\bar{u}_1\gamma_\mu u_1\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	R
uu_1123	$\left(\bar{u}_1\gamma_\mu u_1\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
uu_1133	$\left(\bar{u}_1\gamma_\mu u_1\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
uu_1212	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
uu_1213	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
uu_1221	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_2\gamma^\mu u_1\right)$	R

10

WC name	Operator	Type
uu_1222	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
uu_1223	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
uu_1231	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	C
uu_1232	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
uu_1233	$\left(\bar{u}_1\gamma_\mu u_2\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
uu_1313	$\left(\bar{u}_1\gamma_\mu u_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
uu_1322	$\left(\bar{u}_1\gamma_\mu u_3\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
uu_1323	$\left(\bar{u}_1\gamma_\mu u_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
uu_1331	$\left(\bar{u}_1\gamma_\mu u_3\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	R
uu_1332	$\left(\bar{u}_1\gamma_\mu u_3\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
uu_1333	$\left(\bar{u}_1\gamma_\mu u_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
uu_2222	$\left(\bar{u}_2\gamma_\mu u_2\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	R
uu_2223	$\left(\bar{u}_2\gamma_\mu u_2\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
uu_2233	$\left(\bar{u}_2\gamma_\mu u_2\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
uu_2323	$\left(\bar{u}_2\gamma_\mu u_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
uu_2332	$\left(\bar{u}_2\gamma_\mu u_3\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	R
uu_2333	$\left(\bar{u}_2\gamma_\mu u_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
uu_3333	$\left(\bar{u}_3\gamma_\mu u_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
dd_1111	$\left(\bar{d}_1\gamma_\mu d_1\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	R
dd_1112	$\left(\bar{d}_1\gamma_\mu d_1\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
dd_1113	$\left(\bar{d}_1\gamma_\mu d_1\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
dd_1122	$\left(\bar{d}_1\gamma_\mu d_1\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
dd_1123	$\left(\bar{d}_1\gamma_\mu d_1\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
dd_1133	$\left(\bar{d}_1\gamma_\mu d_1\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
dd_1212	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
dd_1213	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
dd_1221	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_2\gamma^\mu d_1\right)$	R
dd_1222	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	C
dd_1223	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
dd_1231	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	C
dd_1232	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
dd_1233	$\left(\bar{d}_1\gamma_\mu d_2\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
dd_1313	$\left(\bar{d}_1\gamma_\mu d_3\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
dd_1322	$\left(\bar{d}_1\gamma_\mu d_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	C
dd_1323	$\left(\bar{d}_1\gamma_\mu d_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
dd_1331	$\left(\bar{d}_1\gamma_\mu d_3\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	R
dd_1332	$\left(\bar{d}_1\gamma_\mu d_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
dd_1333	$\left(\bar{d}_1\gamma_\mu d_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
dd_2222	$\left(\bar{d}_2\gamma_\mu d_2\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
dd_2223	$\left(\bar{d}_2\gamma_\mu d_2\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
dd_2233	$\left(\bar{d}_2\gamma_\mu d_2\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
dd_2323	$\left(\bar{d}_2\gamma_\mu d_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
dd_2332	$\left(\bar{d}_2\gamma_\mu d_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	R

WC name	Operator	Type
dd_2333	$\left(\bar{d}_2\gamma_\mu d_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
dd_3333	$\left(\bar{d}_3\gamma_\mu d_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
eu_1111	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	R
eu_1112	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
eu_1113	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
eu_1122	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	R
eu_1123	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
eu_1133	$\left(\bar{e}_1\gamma_\mu e_1\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
eu_1211	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	C
eu_1212	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
eu_1213	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
eu_1221	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_2\gamma^\mu u_1\right)$	C
eu_1222	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
eu_1223	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
eu_1231	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	C
eu_1232	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
eu_1233	$\left(\bar{e}_1\gamma_\mu e_2\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
eu_1311	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	C
eu_1312	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
eu_1313	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
eu_1321	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_2\gamma^\mu u_1\right)$	C
eu_1322	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
eu_1323	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
eu_1331	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	C
eu_1332	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
eu_1333	$\left(\bar{e}_1\gamma_\mu e_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
eu_2211	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	R
eu_2212	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
eu_2213	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
eu_2222	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	R
eu_2223	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
eu_2233	$\left(\bar{e}_2\gamma_\mu e_2\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
eu_2311	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	C
eu_2312	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
eu_2313	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
eu_2321	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_2\gamma^\mu u_1\right)$	C
eu_2322	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
eu_2323	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
eu_2331	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	C
eu_2332	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
eu_2333	$\left(\bar{e}_2\gamma_\mu e_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
eu_3311	$\left(\bar{e}_3\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	R
eu_3312	$\left(\bar{e}_3\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
eu_3313	$\left(\bar{e}_3\gamma_\mu e_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C

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

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

14

WC name	Operator	Type
ud1_2331	$\left(\bar{u}_2\gamma_\mu u_3\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	C
ud1_2332	$\left(\bar{u}_2\gamma_\mu u_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
ud1_2333	$\left(\bar{u}_2\gamma_\mu u_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
ud1_3311	$\left(\bar{u}_3\gamma_\mu u_3\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	R
ud1_3312	$\left(\bar{u}_3\gamma_\mu u_3\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
ud1_3313	$\left(\bar{u}_3\gamma_\mu u_3\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
ud1_3322	$\left(\bar{u}_3\gamma_\mu u_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
ud1_3323	$\left(\bar{u}_3\gamma_\mu u_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
ud1_3333	$\left(\bar{u}_3\gamma_\mu u_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
ud8_1111	$\left(\bar{u}_1\gamma_\mu T^A u_1\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	R
ud8_1112	$\left(\bar{u}_1\gamma_\mu T^A u_1\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
ud8_1113	$\left(\bar{u}_1\gamma_\mu T^A u_1\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	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	$\left(\bar{u}_1\gamma_\mu T^A u_1\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
ud8_1133	$\left(\bar{u}_1\gamma_\mu T^A u_1\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	R
ud8_1211	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	C
ud8_1212	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
ud8_1213	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
ud8_1221	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_2\gamma^\mu T^A d_1\right)$	C
ud8_1222	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	C
ud8_1223	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
ud8_1231	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_3\gamma^\mu T^A d_1\right)$	C
ud8_1232	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_3\gamma^\mu T^A d_2\right)$	C
ud8_1233	$\left(\bar{u}_1\gamma_\mu T^A u_2\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	C
ud8_1311	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	C
ud8_1312	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
ud8_1313	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
ud8_1321	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_1\right)$	C
ud8_1322	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	C
ud8_1323	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
ud8_1331	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_3\gamma^\mu T^A d_1\right)$	C
ud8_1332	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_3\gamma^\mu T^A d_2\right)$	C
ud8_1333	$\left(\bar{u}_1\gamma_\mu T^A u_3\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	C
ud8_2211	$\left(\bar{u}_2\gamma_\mu T^A u_2\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	R
ud8_2212	$\left(\bar{u}_2\gamma_\mu T^A u_2\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
ud8_2213	$\left(\bar{u}_2\gamma_\mu T^A u_2\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
ud8_2222	$\left(\bar{u}_2\gamma_\mu T^A u_2\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	R
ud8_2223	$\left(\bar{u}_2\gamma_\mu T^A u_2\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
ud8_2233	$\left(\bar{u}_2\gamma_\mu T^A u_2\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	R
ud8_2311	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	C
ud8_2312	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
ud8_2313	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C

WC name	Operator	Type
ud8_2321	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_1\right)$	C
ud8_2322	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	C
ud8_2323	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
ud8_2331	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_3\gamma^\mu T^A d_1\right)$	C
ud8_2332	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_3\gamma^\mu T^A d_2\right)$	C
ud8_2333	$\left(\bar{u}_2\gamma_\mu T^A u_3\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	C
ud8_3311	$\left(\bar{u}_3\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	R
ud8_3312	$\left(\bar{u}_3\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
ud8_3313	$\left(\bar{u}_3\gamma_\mu T^A u_3\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
ud8_3322	$\left(\bar{u}_3\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	R
ud8_3323	$\left(\bar{u}_3\gamma_\mu T^A u_3\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
ud8_3333	$\left(\bar{u}_3\gamma_\mu T^A u_3\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	R
le_1111	$\left(\bar{\ell}_1\gamma_\mu \ell_1\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	R
le_1112	$\left(\bar{\ell}_1\gamma_\mu \ell_1\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
le_1113	$\left(\bar{\ell}_1\gamma_\mu \ell_1\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
le_1122	$\left(\bar{\ell}_1\gamma_\mu \ell_1\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	R
le_1123	$\left(\bar{\ell}_1\gamma_\mu \ell_1\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
le_1133	$\left(\bar{\ell}_1\gamma_\mu \ell_1\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R
le_1211	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	C
le_1212	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
le_1213	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
le_1221	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_2\gamma^\mu e_1\right)$	C
le_1222	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	C
le_1223	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
le_1231	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_3\gamma^\mu e_1\right)$	C
le_1232	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_3\gamma^\mu e_2\right)$	C
le_1233	$\left(\bar{\ell}_1\gamma_\mu \ell_2\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	C
le_1311	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	C
le_1312	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
le_1313	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
le_1321	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_2\gamma^\mu e_1\right)$	C
le_1322	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	C
le_1323	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
le_1331	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_3\gamma^\mu e_1\right)$	C
le_1332	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_3\gamma^\mu e_2\right)$	C
le_1333	$\left(\bar{\ell}_1\gamma_\mu \ell_3\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	C
le_2211	$\left(\bar{\ell}_2\gamma_\mu \ell_2\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	R
le_2212	$\left(\bar{\ell}_2\gamma_\mu \ell_2\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
le_2213	$\left(\bar{\ell}_2\gamma_\mu \ell_2\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
le_2222	$\left(\bar{\ell}_2\gamma_\mu \ell_2\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	R
le_2223	$\left(\bar{\ell}_2\gamma_\mu \ell_2\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
le_2233	$\left(\bar{\ell}_2\gamma_\mu \ell_2\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R

WC name	Operator	Type
le_2311	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	C
le_2312	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
le_2313	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
le_2321	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_2\gamma^\mu e_1\right)$	C
le_2322	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	C
le_2323	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
le_2331	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_3\gamma^\mu e_1\right)$	C
le_2332	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_3\gamma^\mu e_2\right)$	C
le_2333	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	C
le_3311	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	R
le_3312	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
le_3313	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
le_3322	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	R
le_3323	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
le_3333	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R
lu_1111	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	R
lu_1112	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
lu_1113	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
lu_1122	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	R
lu_1123	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
lu_1133	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
lu_1211	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	C
lu_1212	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
lu_1213	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
lu_1221	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_1\right)$	C
lu_1222	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
lu_1223	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
lu_1231	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	C
lu_1232	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
lu_1233	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
lu_1311	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	C
lu_1312	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
lu_1313	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
lu_1321	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_1\right)$	C
lu_1322	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
lu_1323	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
lu_1331	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	C
lu_1332	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
lu_1333	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
lu_2211	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	R
lu_2212	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
lu_2213	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C

WC name	Operator	Type
lu_2222	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	R
lu_2223	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
lu_2233	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
lu_2311	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	C
lu_2312	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
lu_2313	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
lu_2321	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_1\right)$	C
lu_2322	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	C
lu_2323	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
lu_2331	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_1\right)$	C
lu_2332	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_2\right)$	C
lu_2333	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	C
lu_3311	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_1\right)$	R
lu_3312	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_2\right)$	C
lu_3313	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_1\gamma^\mu u_3\right)$	C
lu_3322	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_2\right)$	R
lu_3323	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_2\gamma^\mu u_3\right)$	C
lu_3333	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{u}_3\gamma^\mu u_3\right)$	R
ld_1111	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	R
ld_1112	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
ld_1113	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
ld_1122	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
ld_1123	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
ld_1133	$\left(\bar{\ell}_1\gamma_\mu\ell_1\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
ld_1211	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	C
ld_1212	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
ld_1213	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
ld_1221	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_2\gamma^\mu d_1\right)$	C
ld_1222	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	C
ld_1223	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
ld_1231	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	C
ld_1232	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
ld_1233	$\left(\bar{\ell}_1\gamma_\mu\ell_2\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
ld_1311	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	C
ld_1312	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
ld_1313	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
ld_1321	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_1\right)$	C
ld_1322	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	C
ld_1323	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
ld_1331	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	C
ld_1332	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
ld_1333	$\left(\bar{\ell}_1\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C

WC name	Operator	Type
ld_2211	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	R
ld_2212	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
ld_2213	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
ld_2222	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
ld_2223	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
ld_2233	$\left(\bar{\ell}_2\gamma_\mu\ell_2\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
ld_2311	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	C
ld_2312	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
ld_2313	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
ld_2321	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_1\right)$	C
ld_2322	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	C
ld_2323	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
ld_2331	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	C
ld_2332	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
ld_2333	$\left(\bar{\ell}_2\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
ld_3311	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	R
ld_3312	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
ld_3313	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
ld_3322	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
ld_3323	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
ld_3333	$\left(\bar{\ell}_3\gamma_\mu\ell_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
qe_1111	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	R
qe_1112	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
qe_1113	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
qe_1122	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	R
qe_1123	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
qe_1133	$\left(\bar{q}_1\gamma_\mu q_1\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	R
qe_1211	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	C
qe_1212	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
qe_1213	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
qe_1221	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_2\gamma^\mu e_1\right)$	C
qe_1222	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	C
qe_1223	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
qe_1231	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_3\gamma^\mu e_1\right)$	C
qe_1232	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_3\gamma^\mu e_2\right)$	C
qe_1233	$\left(\bar{q}_1\gamma_\mu q_2\right)\left(\bar{e}_3\gamma^\mu e_3\right)$	C
qe_1311	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{e}_1\gamma^\mu e_1\right)$	C
qe_1312	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{e}_1\gamma^\mu e_2\right)$	C
qe_1313	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{e}_1\gamma^\mu e_3\right)$	C
qe_1321	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{e}_2\gamma^\mu e_1\right)$	C
qe_1322	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{e}_2\gamma^\mu e_2\right)$	C
qe_1323	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{e}_2\gamma^\mu e_3\right)$	C
qe_1331	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{e}_3\gamma^\mu e_1\right)$	C

WC name	Operator	Type
qe_1332	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{e}_3\gamma^\mu e_2)$	C
qe_1333	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{e}_3\gamma^\mu e_3)$	C
qe_2211	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{e}_1\gamma^\mu e_1)$	R
qe_2212	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{e}_1\gamma^\mu e_2)$	C
qe_2213	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{e}_1\gamma^\mu e_3)$	C
qe_2222	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{e}_2\gamma^\mu e_2)$	R
qe_2223	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{e}_2\gamma^\mu e_3)$	C
qe_2233	$(\bar{q}_2\gamma_\mu q_2)\,(\bar{e}_3\gamma^\mu e_3)$	R
qe_2311	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_1\gamma^\mu e_1)$	C
qe_2312	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_1\gamma^\mu e_2)$	C
qe_2313	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_1\gamma^\mu e_3)$	C
qe_2321	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_2\gamma^\mu e_1)$	C
qe_2322	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_2\gamma^\mu e_2)$	C
qe_2323	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_2\gamma^\mu e_3)$	C
qe_2331	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_3\gamma^\mu e_1)$	C
qe_2332	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_3\gamma^\mu e_2)$	C
qe_2333	$(\bar{q}_2\gamma_\mu q_3)\,(\bar{e}_3\gamma^\mu e_3)$	C
qe_3311	$(\bar{q}_3\gamma_\mu q_3)\,(\bar{e}_1\gamma^\mu e_1)$	R
qe_3312	$(\bar{q}_3\gamma_\mu q_3)\,(\bar{e}_1\gamma^\mu e_2)$	C
qe_3313	$(\bar{q}_3\gamma_\mu q_3)\,(\bar{e}_1\gamma^\mu e_3)$	C
qe_3322	$(\bar{q}_3\gamma_\mu q_3)\,(\bar{e}_2\gamma^\mu e_2)$	R
qe_3323	$(\bar{q}_3\gamma_\mu q_3)\,(\bar{e}_2\gamma^\mu e_3)$	C
qe_3333	$(\bar{q}_3\gamma_\mu q_3)\,(\bar{e}_3\gamma^\mu e_3)$	R
qu1_1111	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{u}_1\gamma^\mu u_1)$	R
qu1_1112	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{u}_1\gamma^\mu u_2)$	C
qu1_1113	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{u}_1\gamma^\mu u_3)$	C
qu1_1122	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{u}_2\gamma^\mu u_2)$	R
qu1_1123	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{u}_2\gamma^\mu u_3)$	C
qu1_1133	$(\bar{q}_1\gamma_\mu q_1)\,(\bar{u}_3\gamma^\mu u_3)$	R
qu1_1211	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_1\gamma^\mu u_1)$	C
qu1_1212	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_1\gamma^\mu u_2)$	C
qu1_1213	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_1\gamma^\mu u_3)$	C
qu1_1221	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_2\gamma^\mu u_1)$	C
qu1_1222	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_2\gamma^\mu u_2)$	C
qu1_1223	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_2\gamma^\mu u_3)$	C
qu1_1231	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_3\gamma^\mu u_1)$	C
qu1_1232	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_3\gamma^\mu u_2)$	C
qu1_1233	$(\bar{q}_1\gamma_\mu q_2)\,(\bar{u}_3\gamma^\mu u_3)$	C
qu1_1311	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{u}_1\gamma^\mu u_1)$	C
qu1_1312	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{u}_1\gamma^\mu u_2)$	C
qu1_1313	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{u}_1\gamma^\mu u_3)$	C
qu1_1321	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{u}_2\gamma^\mu u_1)$	C
qu1_1322	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{u}_2\gamma^\mu u_2)$	C
qu1_1323	$(\bar{q}_1\gamma_\mu q_3)\,(\bar{u}_2\gamma^\mu u_3)$	C

WC name	Operator	Type
qu1_1331	$\left(\bar{q}_1 \gamma_\mu q_3\right)\left(\bar{u}_3 \gamma^\mu u_1\right)$	C
qu1_1332	$\left(\bar{q}_1 \gamma_\mu q_3\right)\left(\bar{u}_3 \gamma^\mu u_2\right)$	C
qu1_1333	$\left(\bar{q}_1 \gamma_\mu q_3\right)\left(\bar{u}_3 \gamma^\mu u_3\right)$	C
qu1_2211	$\left(\bar{q}_2 \gamma_\mu q_2\right)\left(\bar{u}_1 \gamma^\mu u_1\right)$	R
qu1_2212	$\left(\bar{q}_2 \gamma_\mu q_2\right)\left(\bar{u}_1 \gamma^\mu u_2\right)$	C
qu1_2213	$\left(\bar{q}_2 \gamma_\mu q_2\right)\left(\bar{u}_1 \gamma^\mu u_3\right)$	C
qu1_2222	$\left(\bar{q}_2 \gamma_\mu q_2\right)\left(\bar{u}_2 \gamma^\mu u_2\right)$	R
qu1_2223	$\left(\bar{q}_2 \gamma_\mu q_2\right)\left(\bar{u}_2 \gamma^\mu u_3\right)$	C
qu1_2233	$\left(\bar{q}_2 \gamma_\mu q_2\right)\left(\bar{u}_3 \gamma^\mu u_3\right)$	R
qu1_2311	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_1 \gamma^\mu u_1\right)$	C
qu1_2312	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_1 \gamma^\mu u_2\right)$	C
qu1_2313	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_1 \gamma^\mu u_3\right)$	C
qu1_2321	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_2 \gamma^\mu u_1\right)$	C
qu1_2322	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_2 \gamma^\mu u_2\right)$	C
qu1_2323	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_2 \gamma^\mu u_3\right)$	C
qu1_2331	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_3 \gamma^\mu u_1\right)$	C
qu1_2332	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_3 \gamma^\mu u_2\right)$	C
qu1_2333	$\left(\bar{q}_2 \gamma_\mu q_3\right)\left(\bar{u}_3 \gamma^\mu u_3\right)$	C
qu1_3311	$\left(\bar{q}_3 \gamma_\mu q_3\right)\left(\bar{u}_1 \gamma^\mu u_1\right)$	R
qu1_3312	$\left(\bar{q}_3 \gamma_\mu q_3\right)\left(\bar{u}_1 \gamma^\mu u_2\right)$	C
qu1_3313	$\left(\bar{q}_3 \gamma_\mu q_3\right)\left(\bar{u}_1 \gamma^\mu u_3\right)$	C
qu1_3322	$\left(\bar{q}_3 \gamma_\mu q_3\right)\left(\bar{u}_2 \gamma^\mu u_2\right)$	R
qu1_3323	$\left(\bar{q}_3 \gamma_\mu q_3\right)\left(\bar{u}_2 \gamma^\mu u_3\right)$	C
qu1_3333	$\left(\bar{q}_3 \gamma_\mu q_3\right)\left(\bar{u}_3 \gamma^\mu u_3\right)$	R
qd1_1111	$\left(\bar{q}_1 \gamma_\mu q_1\right)\left(\bar{d}_1 \gamma^\mu d_1\right)$	R
qd1_1112	$\left(\bar{q}_1 \gamma_\mu q_1\right)\left(\bar{d}_1 \gamma^\mu d_2\right)$	C
qd1_1113	$\left(\bar{q}_1 \gamma_\mu q_1\right)\left(\bar{d}_1 \gamma^\mu d_3\right)$	C
qd1_1122	$\left(\bar{q}_1 \gamma_\mu q_1\right)\left(\bar{d}_2 \gamma^\mu d_2\right)$	R
qd1_1123	$\left(\bar{q}_1 \gamma_\mu q_1\right)\left(\bar{d}_2 \gamma^\mu d_3\right)$	C
qd1_1133	$\left(\bar{q}_1 \gamma_\mu q_1\right)\left(\bar{d}_3 \gamma^\mu d_3\right)$	R
qd1_1211	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_1 \gamma^\mu d_1\right)$	C
qd1_1212	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_1 \gamma^\mu d_2\right)$	C
qd1_1213	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_1 \gamma^\mu d_3\right)$	C
qd1_1221	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_2 \gamma^\mu d_1\right)$	C
qd1_1222	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_2 \gamma^\mu d_2\right)$	C
qd1_1223	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_2 \gamma^\mu d_3\right)$	C
qd1_1231	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_3 \gamma^\mu d_1\right)$	C
qd1_1232	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_3 \gamma^\mu d_2\right)$	C
qd1_1233	$\left(\bar{q}_1 \gamma_\mu q_2\right)\left(\bar{d}_3 \gamma^\mu d_3\right)$	C
qd1_1311	$\left(\bar{q}_1 \gamma_\mu q_3\right)\left(\bar{d}_1 \gamma^\mu d_1\right)$	C
qd1_1312	$\left(\bar{q}_1 \gamma_\mu q_3\right)\left(\bar{d}_1 \gamma^\mu d_2\right)$	C
qd1_1313	$\left(\bar{q}_1 \gamma_\mu q_3\right)\left(\bar{d}_1 \gamma^\mu d_3\right)$	C
qd1_1321	$\left(\bar{q}_1 \gamma_\mu q_3\right)\left(\bar{d}_2 \gamma^\mu d_1\right)$	C

WC name	Operator	Type
qd1_1322	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	C
qd1_1323	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
qd1_1331	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	C
qd1_1332	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
qd1_1333	$\left(\bar{q}_1\gamma_\mu q_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
qd1_2211	$\left(\bar{q}_2\gamma_\mu q_2\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	R
qd1_2212	$\left(\bar{q}_2\gamma_\mu q_2\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
qd1_2213	$\left(\bar{q}_2\gamma_\mu q_2\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
qd1_2222	$\left(\bar{q}_2\gamma_\mu q_2\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
qd1_2223	$\left(\bar{q}_2\gamma_\mu q_2\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
qd1_2233	$\left(\bar{q}_2\gamma_\mu q_2\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
qd1_2311	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	C
qd1_2312	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
qd1_2313	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
qd1_2321	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_2\gamma^\mu d_1\right)$	C
qd1_2322	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	C
qd1_2323	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
qd1_2331	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_3\gamma^\mu d_1\right)$	C
qd1_2332	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_3\gamma^\mu d_2\right)$	C
qd1_2333	$\left(\bar{q}_2\gamma_\mu q_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	C
qd1_3311	$\left(\bar{q}_3\gamma_\mu q_3\right)\left(\bar{d}_1\gamma^\mu d_1\right)$	R
qd1_3312	$\left(\bar{q}_3\gamma_\mu q_3\right)\left(\bar{d}_1\gamma^\mu d_2\right)$	C
qd1_3313	$\left(\bar{q}_3\gamma_\mu q_3\right)\left(\bar{d}_1\gamma^\mu d_3\right)$	C
qd1_3322	$\left(\bar{q}_3\gamma_\mu q_3\right)\left(\bar{d}_2\gamma^\mu d_2\right)$	R
qd1_3323	$\left(\bar{q}_3\gamma_\mu q_3\right)\left(\bar{d}_2\gamma^\mu d_3\right)$	C
qd1_3333	$\left(\bar{q}_3\gamma_\mu q_3\right)\left(\bar{d}_3\gamma^\mu d_3\right)$	R
qu8_1111	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{u}_1\gamma^\mu T^A u_1\right)$	R
qu8_1112	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{u}_1\gamma^\mu T^A u_2\right)$	C
qu8_1113	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{u}_1\gamma^\mu T^A u_3\right)$	C
qu8_1122	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{u}_2\gamma^\mu T^A u_2\right)$	R
qu8_1123	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{u}_2\gamma^\mu T^A u_3\right)$	C
qu8_1133	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{u}_3\gamma^\mu T^A u_3\right)$	R
qu8_1211	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_1\gamma^\mu T^A u_1\right)$	C
qu8_1212	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_1\gamma^\mu T^A u_2\right)$	C
qu8_1213	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_1\gamma^\mu T^A u_3\right)$	C
qu8_1221	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_2\gamma^\mu T^A u_1\right)$	C
qu8_1222	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_2\gamma^\mu T^A u_2\right)$	C
qu8_1223	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_2\gamma^\mu T^A u_3\right)$	C
qu8_1231	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_3\gamma^\mu T^A u_1\right)$	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	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{u}_3\gamma^\mu T^A u_3\right)$	C
qu8_1311	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_1\right)$	C
qu8_1312	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_2\right)$	C

WC name	Operator	Type
qu8_1313	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_3\right)$	C
qu8_1321	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_1\right)$	C
qu8_1322	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_2\right)$	C
qu8_1323	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_3\right)$	C
qu8_1331	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_3\gamma^\mu T^A u_1\right)$	C
qu8_1332	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_3\gamma^\mu T^A u_2\right)$	C
qu8_1333	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{u}_3\gamma^\mu T^A u_3\right)$	C
qu8_2211	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{u}_1\gamma^\mu T^A u_1\right)$	R
qu8_2212	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{u}_1\gamma^\mu T^A u_2\right)$	C
qu8_2213	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{u}_1\gamma^\mu T^A u_3\right)$	C
qu8_2222	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{u}_2\gamma^\mu T^A u_2\right)$	R
qu8_2223	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{u}_2\gamma^\mu T^A u_3\right)$	C
qu8_2233	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{u}_3\gamma^\mu T^A u_3\right)$	R
qu8_2311	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_1\right)$	C
qu8_2312	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_2\right)$	C
qu8_2313	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_3\right)$	C
qu8_2321	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_1\right)$	C
qu8_2322	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_2\right)$	C
qu8_2323	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_3\right)$	C
qu8_2331	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_3\gamma^\mu T^A u_1\right)$	C
qu8_2332	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_3\gamma^\mu T^A u_2\right)$	C
qu8_2333	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{u}_3\gamma^\mu T^A u_3\right)$	C
qu8_3311	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_1\right)$	R
qu8_3312	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_2\right)$	C
qu8_3313	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{u}_1\gamma^\mu T^A u_3\right)$	C
qu8_3322	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_2\right)$	R
qu8_3323	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{u}_2\gamma^\mu T^A u_3\right)$	C
qu8_3333	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{u}_3\gamma^\mu T^A u_3\right)$	R
qd8_1111	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	R
qd8_1112	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
qd8_1113	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
qd8_1122	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	R
qd8_1123	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
qd8_1133	$\left(\bar{q}_1\gamma_\mu T^A q_1\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	R
qd8_1211	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	C
qd8_1212	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
qd8_1213	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
qd8_1221	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_2\gamma^\mu T^A d_1\right)$	C
qd8_1222	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	C
qd8_1223	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
qd8_1231	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_3\gamma^\mu T^A d_1\right)$	C
qd8_1232	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_3\gamma^\mu T^A d_2\right)$	C
qd8_1233	$\left(\bar{q}_1\gamma_\mu T^A q_2\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	C

WC name	Operator	Type
qd8_1311	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	C
qd8_1312	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
qd8_1313	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
qd8_1321	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_1\right)$	C
qd8_1322	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	C
qd8_1323	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
qd8_1331	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_3\gamma^\mu T^A d_1\right)$	C
qd8_1332	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_3\gamma^\mu T^A d_2\right)$	C
qd8_1333	$\left(\bar{q}_1\gamma_\mu T^A q_3\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	C
qd8_2211	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	R
qd8_2212	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
qd8_2213	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
qd8_2222	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	R
qd8_2223	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
qd8_2233	$\left(\bar{q}_2\gamma_\mu T^A q_2\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	R
qd8_2311	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	C
qd8_2312	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
qd8_2313	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
qd8_2321	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_1\right)$	C
qd8_2322	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	C
qd8_2323	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
qd8_2331	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_3\gamma^\mu T^A d_1\right)$	C
qd8_2332	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_3\gamma^\mu T^A d_2\right)$	C
qd8_2333	$\left(\bar{q}_2\gamma_\mu T^A q_3\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	C
qd8_3311	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_1\right)$	R
qd8_3312	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_2\right)$	C
qd8_3313	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{d}_1\gamma^\mu T^A d_3\right)$	C
qd8_3322	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_2\right)$	R
qd8_3323	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{d}_2\gamma^\mu T^A d_3\right)$	C
qd8_3333	$\left(\bar{q}_3\gamma_\mu T^A q_3\right)\left(\bar{d}_3\gamma^\mu T^A d_3\right)$	R
ledq_1111	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_1 q_1\right)$	C
ledq_1112	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_1 q_2\right)$	C
ledq_1113	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_1 q_3\right)$	C
ledq_1121	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_2 q_1\right)$	C
ledq_1122	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_2 q_2\right)$	C
ledq_1123	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_2 q_3\right)$	C
ledq_1131	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_3 q_1\right)$	C
ledq_1132	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_3 q_2\right)$	C
ledq_1133	$\left(\bar{\ell}_1 e_1\right)\left(\bar{d}_3 q_3\right)$	C
ledq_1211	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_1 q_1\right)$	C
ledq_1212	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_1 q_2\right)$	C
ledq_1213	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_1 q_3\right)$	C

WC name	Operator	Type
`ledq_1221`	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_2 q_1\right)$	C
`ledq_1222`	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_2 q_2\right)$	C
`ledq_1223`	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_2 q_3\right)$	C
`ledq_1231`	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_3 q_1\right)$	C
`ledq_1232`	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_3 q_2\right)$	C
`ledq_1233`	$\left(\bar{\ell}_1 e_2\right)\left(\bar{d}_3 q_3\right)$	C
`ledq_1311`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_1 q_1\right)$	C
`ledq_1312`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_1 q_2\right)$	C
`ledq_1313`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_1 q_3\right)$	C
`ledq_1321`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_2 q_1\right)$	C
`ledq_1322`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_2 q_2\right)$	C
`ledq_1323`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_2 q_3\right)$	C
`ledq_1331`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_3 q_1\right)$	C
`ledq_1332`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_3 q_2\right)$	C
`ledq_1333`	$\left(\bar{\ell}_1 e_3\right)\left(\bar{d}_3 q_3\right)$	C
`ledq_2111`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_1 q_1\right)$	C
`ledq_2112`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_1 q_2\right)$	C
`ledq_2113`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_1 q_3\right)$	C
`ledq_2121`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_2 q_1\right)$	C
`ledq_2122`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_2 q_2\right)$	C
`ledq_2123`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_2 q_3\right)$	C
`ledq_2131`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_3 q_1\right)$	C
`ledq_2132`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_3 q_2\right)$	C
`ledq_2133`	$\left(\bar{\ell}_2 e_1\right)\left(\bar{d}_3 q_3\right)$	C
`ledq_2211`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_1 q_1\right)$	C
`ledq_2212`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_1 q_2\right)$	C
`ledq_2213`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_1 q_3\right)$	C
`ledq_2221`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_2 q_1\right)$	C
`ledq_2222`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_2 q_2\right)$	C
`ledq_2223`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_2 q_3\right)$	C
`ledq_2231`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_3 q_1\right)$	C
`ledq_2232`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_3 q_2\right)$	C
`ledq_2233`	$\left(\bar{\ell}_2 e_2\right)\left(\bar{d}_3 q_3\right)$	C
`ledq_2311`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_1 q_1\right)$	C
`ledq_2312`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_1 q_2\right)$	C
`ledq_2313`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_1 q_3\right)$	C
`ledq_2321`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_2 q_1\right)$	C
`ledq_2322`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_2 q_2\right)$	C
`ledq_2323`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_2 q_3\right)$	C
`ledq_2331`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_3 q_1\right)$	C
`ledq_2332`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_3 q_2\right)$	C
`ledq_2333`	$\left(\bar{\ell}_2 e_3\right)\left(\bar{d}_3 q_3\right)$	C

WC name	Operator	Type
ledq_3111	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_1 q_1\right)$	C
ledq_3112	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_1 q_2\right)$	C
ledq_3113	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_1 q_3\right)$	C
ledq_3121	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_2 q_1\right)$	C
ledq_3122	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_2 q_2\right)$	C
ledq_3123	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_2 q_3\right)$	C
ledq_3131	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_3 q_1\right)$	C
ledq_3132	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_3 q_2\right)$	C
ledq_3133	$\left(\bar{\ell}_3 e_1\right)\left(\bar{d}_3 q_3\right)$	C
ledq_3211	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_1 q_1\right)$	C
ledq_3212	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_1 q_2\right)$	C
ledq_3213	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_1 q_3\right)$	C
ledq_3221	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_2 q_1\right)$	C
ledq_3222	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_2 q_2\right)$	C
ledq_3223	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_2 q_3\right)$	C
ledq_3231	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_3 q_1\right)$	C
ledq_3232	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_3 q_2\right)$	C
ledq_3233	$\left(\bar{\ell}_3 e_2\right)\left(\bar{d}_3 q_3\right)$	C
ledq_3311	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_1 q_1\right)$	C
ledq_3312	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_1 q_2\right)$	C
ledq_3313	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_1 q_3\right)$	C
ledq_3321	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_2 q_1\right)$	C
ledq_3322	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_2 q_2\right)$	C
ledq_3323	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_2 q_3\right)$	C
ledq_3331	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_3 q_1\right)$	C
ledq_3332	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_3 q_2\right)$	C
ledq_3333	$\left(\bar{\ell}_3 e_3\right)\left(\bar{d}_3 q_3\right)$	C
quqd1_1111	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_1 d_1\right)$	C
quqd1_1112	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_1 d_2\right)$	C
quqd1_1113	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_1 d_3\right)$	C
quqd1_1121	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_2 d_1\right)$	C
quqd1_1122	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_2 d_2\right)$	C
quqd1_1123	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_2 d_3\right)$	C
quqd1_1131	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_3 d_1\right)$	C
quqd1_1132	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_3 d_2\right)$	C
quqd1_1133	$\left(\bar{q}_1 u_1\right)\epsilon_{jk}\left(\bar{q}_3 d_3\right)$	C
quqd1_1211	$\left(\bar{q}_1 u_2\right)\epsilon_{jk}\left(\bar{q}_1 d_1\right)$	C
quqd1_1212	$\left(\bar{q}_1 u_2\right)\epsilon_{jk}\left(\bar{q}_1 d_2\right)$	C
quqd1_1213	$\left(\bar{q}_1 u_2\right)\epsilon_{jk}\left(\bar{q}_1 d_3\right)$	C
quqd1_1221	$\left(\bar{q}_1 u_2\right)\epsilon_{jk}\left(\bar{q}_2 d_1\right)$	C
quqd1_1222	$\left(\bar{q}_1 u_2\right)\epsilon_{jk}\left(\bar{q}_2 d_2\right)$	C
quqd1_1223	$\left(\bar{q}_1 u_2\right)\epsilon_{jk}\left(\bar{q}_2 d_3\right)$	C
quqd1_1231	$\left(\bar{q}_1 u_2\right)\epsilon_{jk}\left(\bar{q}_3 d_1\right)$	C

WC name	Operator	Type
quqd1_1232	$(\bar{q}_1 u_2)\,\epsilon_{jk}\,(\bar{q}_3 d_2)$	C
quqd1_1233	$(\bar{q}_1 u_2)\,\epsilon_{jk}\,(\bar{q}_3 d_3)$	C
quqd1_1311	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_1 d_1)$	C
quqd1_1312	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_1 d_2)$	C
quqd1_1313	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_1 d_3)$	C
quqd1_1321	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_2 d_1)$	C
quqd1_1322	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_2 d_2)$	C
quqd1_1323	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_2 d_3)$	C
quqd1_1331	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_3 d_1)$	C
quqd1_1332	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_3 d_2)$	C
quqd1_1333	$(\bar{q}_1 u_3)\,\epsilon_{jk}\,(\bar{q}_3 d_3)$	C
quqd1_2111	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_1 d_1)$	C
quqd1_2112	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_1 d_2)$	C
quqd1_2113	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_1 d_3)$	C
quqd1_2121	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_2 d_1)$	C
quqd1_2122	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_2 d_2)$	C
quqd1_2123	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_2 d_3)$	C
quqd1_2131	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_3 d_1)$	C
quqd1_2132	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_3 d_2)$	C
quqd1_2133	$(\bar{q}_2 u_1)\,\epsilon_{jk}\,(\bar{q}_3 d_3)$	C
quqd1_2211	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_1 d_1)$	C
quqd1_2212	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_1 d_2)$	C
quqd1_2213	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_1 d_3)$	C
quqd1_2221	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_2 d_1)$	C
quqd1_2222	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_2 d_2)$	C
quqd1_2223	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_2 d_3)$	C
quqd1_2231	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_3 d_1)$	C
quqd1_2232	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_3 d_2)$	C
quqd1_2233	$(\bar{q}_2 u_2)\,\epsilon_{jk}\,(\bar{q}_3 d_3)$	C
quqd1_2311	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_1 d_1)$	C
quqd1_2312	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_1 d_2)$	C
quqd1_2313	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_1 d_3)$	C
quqd1_2321	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_2 d_1)$	C
quqd1_2322	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_2 d_2)$	C
quqd1_2323	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_2 d_3)$	C
quqd1_2331	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_3 d_1)$	C
quqd1_2332	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_3 d_2)$	C
quqd1_2333	$(\bar{q}_2 u_3)\,\epsilon_{jk}\,(\bar{q}_3 d_3)$	C
quqd1_3111	$(\bar{q}_3 u_1)\,\epsilon_{jk}\,(\bar{q}_1 d_1)$	C
quqd1_3112	$(\bar{q}_3 u_1)\,\epsilon_{jk}\,(\bar{q}_1 d_2)$	C
quqd1_3113	$(\bar{q}_3 u_1)\,\epsilon_{jk}\,(\bar{q}_1 d_3)$	C
quqd1_3121	$(\bar{q}_3 u_1)\,\epsilon_{jk}\,(\bar{q}_2 d_1)$	C
quqd1_3122	$(\bar{q}_3 u_1)\,\epsilon_{jk}\,(\bar{q}_2 d_2)$	C
quqd1_3123	$(\bar{q}_3 u_1)\,\epsilon_{jk}\,(\bar{q}_2 d_3)$	C

WC name	Operator	Type
quqd1_3131	$\left(\bar{q}_3 u_1\right) \epsilon_{jk} \left(\bar{q}_3 d_1\right)$	C
quqd1_3132	$\left(\bar{q}_3 u_1\right) \epsilon_{jk} \left(\bar{q}_3 d_2\right)$	C
quqd1_3133	$\left(\bar{q}_3 u_1\right) \epsilon_{jk} \left(\bar{q}_3 d_3\right)$	C
quqd1_3211	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_1 d_1\right)$	C
quqd1_3212	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_1 d_2\right)$	C
quqd1_3213	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_1 d_3\right)$	C
quqd1_3221	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_2 d_1\right)$	C
quqd1_3222	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_2 d_2\right)$	C
quqd1_3223	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_2 d_3\right)$	C
quqd1_3231	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_3 d_1\right)$	C
quqd1_3232	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_3 d_2\right)$	C
quqd1_3233	$\left(\bar{q}_3 u_2\right) \epsilon_{jk} \left(\bar{q}_3 d_3\right)$	C
quqd1_3311	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_1 d_1\right)$	C
quqd1_3312	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_1 d_2\right)$	C
quqd1_3313	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_1 d_3\right)$	C
quqd1_3321	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_2 d_1\right)$	C
quqd1_3322	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_2 d_2\right)$	C
quqd1_3323	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_2 d_3\right)$	C
quqd1_3331	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_3 d_1\right)$	C
quqd1_3332	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_3 d_2\right)$	C
quqd1_3333	$\left(\bar{q}_3 u_3\right) \epsilon_{jk} \left(\bar{q}_3 d_3\right)$	C
quqd8_1111	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_1112	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_1113	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_1121	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_1122	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_1123	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_1131	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_1132	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_1133	$\left(\bar{q}_1 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_1211	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_1212	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_1213	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_1221	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_1222	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_1223	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_1231	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_1232	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_1233	$\left(\bar{q}_1 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_1311	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_1312	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_1313	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_1321	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_1322	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C

WC name	Operator	Type
quqd8_1323	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_1331	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_1332	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_1333	$\left(\bar{q}_1 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_2111	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_2112	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_2113	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_2121	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_2122	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_2123	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_2131	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_2132	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_2133	$\left(\bar{q}_2 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_2211	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_2212	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_2213	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_2221	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_2222	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_2223	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_2231	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_2232	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_2233	$\left(\bar{q}_2 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_2311	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_2312	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_2313	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_2321	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_2322	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_2323	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_2331	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_2332	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_2333	$\left(\bar{q}_2 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_3111	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_3112	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_3113	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_3121	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_3122	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_3123	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_3131	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_3132	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_3133	$\left(\bar{q}_3 T^A u_1\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_3211	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_3212	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_3213	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_3221	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C

WC name	Operator	Type
quqd8_3222	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_3223	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_3231	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_3232	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_3233	$\left(\bar{q}_3 T^A u_2\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
quqd8_3311	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_1\right)$	C
quqd8_3312	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_2\right)$	C
quqd8_3313	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_1 T^A d_3\right)$	C
quqd8_3321	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_1\right)$	C
quqd8_3322	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_2\right)$	C
quqd8_3323	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_2 T^A d_3\right)$	C
quqd8_3331	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_1\right)$	C
quqd8_3332	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_2\right)$	C
quqd8_3333	$\left(\bar{q}_3 T^A u_3\right) \epsilon_{jk} \left(\bar{q}_3 T^A d_3\right)$	C
lequ1_1111	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_1112	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_1113	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_1121	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_1122	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_1123	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_1131	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_1132	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_1133	$\left(\bar{\ell}_1 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_1211	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_1212	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_1213	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_1221	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_1222	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_1223	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_1231	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_1232	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_1233	$\left(\bar{\ell}_1 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_1311	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_1312	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_1313	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_1321	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_1322	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_1323	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_1331	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_1332	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_1333	$\left(\bar{\ell}_1 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_2111	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_2112	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C

WC name	Operator	Type
lequ1_2113	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_2121	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_2122	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_2123	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_2131	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_2132	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_2133	$\left(\bar{\ell}_2 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_2211	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_2212	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_2213	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_2221	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_2222	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_2223	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_2231	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_2232	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_2233	$\left(\bar{\ell}_2 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_2311	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_2312	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_2313	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_2321	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_2322	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_2323	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_2331	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_2332	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_2333	$\left(\bar{\ell}_2 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_3111	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_3112	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_3113	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_3121	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_3122	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_3123	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_3131	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_3132	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_3133	$\left(\bar{\ell}_3 e_1\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_3211	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_3212	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_3213	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_3221	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_3222	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_3223	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_3231	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_3232	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C

WC name	Operator	Type
lequ1_3233	$\left(\bar{\ell}_3 e_2\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ1_3311	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_1\right)$	C
lequ1_3312	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_2\right)$	C
lequ1_3313	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_1 u_3\right)$	C
lequ1_3321	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_1\right)$	C
lequ1_3322	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_2\right)$	C
lequ1_3323	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_2 u_3\right)$	C
lequ1_3331	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_1\right)$	C
lequ1_3332	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_2\right)$	C
lequ1_3333	$\left(\bar{\ell}_3 e_3\right) \epsilon_{jk} \left(\bar{q}_3 u_3\right)$	C
lequ3_1111	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1112	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1113	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1121	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1122	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1123	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1131	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1132	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1133	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1211	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1212	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1213	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1221	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1222	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1223	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1231	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1232	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1233	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_2\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1311	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1312	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1313	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1321	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1322	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1323	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_3\right)$	C
lequ3_1331	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_1\right)$	C
lequ3_1332	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_2\right)$	C
lequ3_1333	$\left(\bar{\ell}_1 \sigma_{\mu\nu} e_3\right) \epsilon_{jk} \left(\bar{q}_3 \sigma^{\mu\nu} u_3\right)$	C
lequ3_2111	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_1\right)$	C
lequ3_2112	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_2\right)$	C
lequ3_2113	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_1 \sigma^{\mu\nu} u_3\right)$	C
lequ3_2121	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_1\right)$	C
lequ3_2122	$\left(\bar{\ell}_2 \sigma_{\mu\nu} e_1\right) \epsilon_{jk} \left(\bar{q}_2 \sigma^{\mu\nu} u_2\right)$	C

WC name	Operator	Type
lequ3_2123	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_3\right)$	C
lequ3_2131	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_1\right)$	C
lequ3_2132	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_2\right)$	C
lequ3_2133	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)$	C
lequ3_2211	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_1\right)$	C
lequ3_2212	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)$	C
lequ3_2213	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)$	C
lequ3_2221	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_1\right)$	C
lequ3_2222	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_2\right)$	C
lequ3_2223	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_3\right)$	C
lequ3_2231	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_1\right)$	C
lequ3_2232	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_2\right)$	C
lequ3_2233	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)$	C
lequ3_2311	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_1\right)$	C
lequ3_2312	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)$	C
lequ3_2313	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)$	C
lequ3_2321	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_1\right)$	C
lequ3_2322	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_2\right)$	C
lequ3_2323	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_3\right)$	C
lequ3_2331	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_1\right)$	C
lequ3_2332	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_2\right)$	C
lequ3_2333	$\left(\bar{\ell}_2\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)$	C
lequ3_3111	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_1\right)$	C
lequ3_3112	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)$	C
lequ3_3113	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)$	C
lequ3_3121	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_1\right)$	C
lequ3_3122	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_2\right)$	C
lequ3_3123	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_3\right)$	C
lequ3_3131	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_1\right)$	C
lequ3_3132	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_2\right)$	C
lequ3_3133	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_1\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)$	C
lequ3_3211	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_1\right)$	C
lequ3_3212	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)$	C
lequ3_3213	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_3\right)$	C
lequ3_3221	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_1\right)$	C
lequ3_3222	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_2\right)$	C
lequ3_3223	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_2\sigma^{\mu\nu}u_3\right)$	C
lequ3_3231	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_1\right)$	C
lequ3_3232	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_2\right)$	C
lequ3_3233	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_2\right)\epsilon_{jk}\left(\bar{q}_3\sigma^{\mu\nu}u_3\right)$	C
lequ3_3311	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_1\right)$	C
lequ3_3312	$\left(\bar{\ell}_3\sigma_{\mu\nu}e_3\right)\epsilon_{jk}\left(\bar{q}_1\sigma^{\mu\nu}u_2\right)$	C

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

`dB=dL=1`

WC name	Operator	Type
`duql_1111`	$\left(d_1 C u_1\right)\left(q_1 C \ell_1\right)$	C
`duql_1112`	$\left(d_1 C u_1\right)\left(q_1 C \ell_2\right)$	C
`duql_1113`	$\left(d_1 C u_1\right)\left(q_1 C \ell_3\right)$	C
`duql_1121`	$\left(d_1 C u_1\right)\left(q_2 C \ell_1\right)$	C
`duql_1122`	$\left(d_1 C u_1\right)\left(q_2 C \ell_2\right)$	C
`duql_1123`	$\left(d_1 C u_1\right)\left(q_2 C \ell_3\right)$	C
`duql_1131`	$\left(d_1 C u_1\right)\left(q_3 C \ell_1\right)$	C
`duql_1132`	$\left(d_1 C u_1\right)\left(q_3 C \ell_2\right)$	C
`duql_1133`	$\left(d_1 C u_1\right)\left(q_3 C \ell_3\right)$	C
`duql_1211`	$\left(d_1 C u_2\right)\left(q_1 C \ell_1\right)$	C
`duql_1212`	$\left(d_1 C u_2\right)\left(q_1 C \ell_2\right)$	C
`duql_1213`	$\left(d_1 C u_2\right)\left(q_1 C \ell_3\right)$	C
`duql_1221`	$\left(d_1 C u_2\right)\left(q_2 C \ell_1\right)$	C
`duql_1222`	$\left(d_1 C u_2\right)\left(q_2 C \ell_2\right)$	C
`duql_1223`	$\left(d_1 C u_2\right)\left(q_2 C \ell_3\right)$	C
`duql_1231`	$\left(d_1 C u_2\right)\left(q_3 C \ell_1\right)$	C
`duql_1232`	$\left(d_1 C u_2\right)\left(q_3 C \ell_2\right)$	C
`duql_1233`	$\left(d_1 C u_2\right)\left(q_3 C \ell_3\right)$	C
`duql_1311`	$\left(d_1 C u_3\right)\left(q_1 C \ell_1\right)$	C
`duql_1312`	$\left(d_1 C u_3\right)\left(q_1 C \ell_2\right)$	C
`duql_1313`	$\left(d_1 C u_3\right)\left(q_1 C \ell_3\right)$	C
`duql_1321`	$\left(d_1 C u_3\right)\left(q_2 C \ell_1\right)$	C
`duql_1322`	$\left(d_1 C u_3\right)\left(q_2 C \ell_2\right)$	C
`duql_1323`	$\left(d_1 C u_3\right)\left(q_2 C \ell_3\right)$	C
`duql_1331`	$\left(d_1 C u_3\right)\left(q_3 C \ell_1\right)$	C
`duql_1332`	$\left(d_1 C u_3\right)\left(q_3 C \ell_2\right)$	C
`duql_1333`	$\left(d_1 C u_3\right)\left(q_3 C \ell_3\right)$	C
`duql_2111`	$\left(d_2 C u_1\right)\left(q_1 C \ell_1\right)$	C
`duql_2112`	$\left(d_2 C u_1\right)\left(q_1 C \ell_2\right)$	C
`duql_2113`	$\left(d_2 C u_1\right)\left(q_1 C \ell_3\right)$	C
`duql_2121`	$\left(d_2 C u_1\right)\left(q_2 C \ell_1\right)$	C

WC name	Operator	Type
duql_2122	$(d_2Cu_1)(q_2C\ell_2)$	C
duql_2123	$(d_2Cu_1)(q_2C\ell_3)$	C
duql_2131	$(d_2Cu_1)(q_3C\ell_1)$	C
duql_2132	$(d_2Cu_1)(q_3C\ell_2)$	C
duql_2133	$(d_2Cu_1)(q_3C\ell_3)$	C
duql_2211	$(d_2Cu_2)(q_1C\ell_1)$	C
duql_2212	$(d_2Cu_2)(q_1C\ell_2)$	C
duql_2213	$(d_2Cu_2)(q_1C\ell_3)$	C
duql_2221	$(d_2Cu_2)(q_2C\ell_1)$	C
duql_2222	$(d_2Cu_2)(q_2C\ell_2)$	C
duql_2223	$(d_2Cu_2)(q_2C\ell_3)$	C
duql_2231	$(d_2Cu_2)(q_3C\ell_1)$	C
duql_2232	$(d_2Cu_2)(q_3C\ell_2)$	C
duql_2233	$(d_2Cu_2)(q_3C\ell_3)$	C
duql_2311	$(d_2Cu_3)(q_1C\ell_1)$	C
duql_2312	$(d_2Cu_3)(q_1C\ell_2)$	C
duql_2313	$(d_2Cu_3)(q_1C\ell_3)$	C
duql_2321	$(d_2Cu_3)(q_2C\ell_1)$	C
duql_2322	$(d_2Cu_3)(q_2C\ell_2)$	C
duql_2323	$(d_2Cu_3)(q_2C\ell_3)$	C
duql_2331	$(d_2Cu_3)(q_3C\ell_1)$	C
duql_2332	$(d_2Cu_3)(q_3C\ell_2)$	C
duql_2333	$(d_2Cu_3)(q_3C\ell_3)$	C
duql_3111	$(d_3Cu_1)(q_1C\ell_1)$	C
duql_3112	$(d_3Cu_1)(q_1C\ell_2)$	C
duql_3113	$(d_3Cu_1)(q_1C\ell_3)$	C
duql_3121	$(d_3Cu_1)(q_2C\ell_1)$	C
duql_3122	$(d_3Cu_1)(q_2C\ell_2)$	C
duql_3123	$(d_3Cu_1)(q_2C\ell_3)$	C
duql_3131	$(d_3Cu_1)(q_3C\ell_1)$	C
duql_3132	$(d_3Cu_1)(q_3C\ell_2)$	C
duql_3133	$(d_3Cu_1)(q_3C\ell_3)$	C
duql_3211	$(d_3Cu_2)(q_1C\ell_1)$	C
duql_3212	$(d_3Cu_2)(q_1C\ell_2)$	C
duql_3213	$(d_3Cu_2)(q_1C\ell_3)$	C
duql_3221	$(d_3Cu_2)(q_2C\ell_1)$	C
duql_3222	$(d_3Cu_2)(q_2C\ell_2)$	C
duql_3223	$(d_3Cu_2)(q_2C\ell_3)$	C
duql_3231	$(d_3Cu_2)(q_3C\ell_1)$	C
duql_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

WC name	Operator	Type
duql_3321	$(d_3 C u_3)(q_2 C \ell_1)$	C
duql_3322	$(d_3 C u_3)(q_2 C \ell_2)$	C
duql_3323	$(d_3 C u_3)(q_2 C \ell_3)$	C
duql_3331	$(d_3 C u_3)(q_3 C \ell_1)$	C
duql_3332	$(d_3 C u_3)(q_3 C \ell_2)$	C
duql_3333	$(d_3 C u_3)(q_3 C \ell_3)$	C
qque_1111	$(q_1 C q_1)(u_1 C e_1)$	C
qque_1112	$(q_1 C q_1)(u_1 C e_2)$	C
qque_1113	$(q_1 C q_1)(u_1 C e_3)$	C
qque_1121	$(q_1 C q_1)(u_2 C e_1)$	C
qque_1122	$(q_1 C q_1)(u_2 C e_2)$	C
qque_1123	$(q_1 C q_1)(u_2 C e_3)$	C
qque_1131	$(q_1 C q_1)(u_3 C e_1)$	C
qque_1132	$(q_1 C q_1)(u_3 C e_2)$	C
qque_1133	$(q_1 C q_1)(u_3 C e_3)$	C
qque_1211	$(q_1 C q_2)(u_1 C e_1)$	C
qque_1212	$(q_1 C q_2)(u_1 C e_2)$	C
qque_1213	$(q_1 C q_2)(u_1 C e_3)$	C
qque_1221	$(q_1 C q_2)(u_2 C e_1)$	C
qque_1222	$(q_1 C q_2)(u_2 C e_2)$	C
qque_1223	$(q_1 C q_2)(u_2 C e_3)$	C
qque_1231	$(q_1 C q_2)(u_3 C e_1)$	C
qque_1232	$(q_1 C q_2)(u_3 C e_2)$	C
qque_1233	$(q_1 C q_2)(u_3 C e_3)$	C
qque_1311	$(q_1 C q_3)(u_1 C e_1)$	C
qque_1312	$(q_1 C q_3)(u_1 C e_2)$	C
qque_1313	$(q_1 C q_3)(u_1 C e_3)$	C
qque_1321	$(q_1 C q_3)(u_2 C e_1)$	C
qque_1322	$(q_1 C q_3)(u_2 C e_2)$	C
qque_1323	$(q_1 C q_3)(u_2 C e_3)$	C
qque_1331	$(q_1 C q_3)(u_3 C e_1)$	C
qque_1332	$(q_1 C q_3)(u_3 C e_2)$	C
qque_1333	$(q_1 C q_3)(u_3 C e_3)$	C
qque_2211	$(q_2 C q_2)(u_1 C e_1)$	C
qque_2212	$(q_2 C q_2)(u_1 C e_2)$	C
qque_2213	$(q_2 C q_2)(u_1 C e_3)$	C
qque_2221	$(q_2 C q_2)(u_2 C e_1)$	C
qque_2222	$(q_2 C q_2)(u_2 C e_2)$	C
qque_2223	$(q_2 C q_2)(u_2 C e_3)$	C
qque_2231	$(q_2 C q_2)(u_3 C e_1)$	C
qque_2232	$(q_2 C q_2)(u_3 C e_2)$	C
qque_2233	$(q_2 C q_2)(u_3 C e_3)$	C
qque_2311	$(q_2 C q_3)(u_1 C e_1)$	C
qque_2312	$(q_2 C q_3)(u_1 C e_2)$	C

WC name	Operator	Type
qque_2313	$(q_2 C q_3)(u_1 C e_3)$	C
qque_2321	$(q_2 C q_3)(u_2 C e_1)$	C
qque_2322	$(q_2 C q_3)(u_2 C e_2)$	C
qque_2323	$(q_2 C q_3)(u_2 C e_3)$	C
qque_2331	$(q_2 C q_3)(u_3 C e_1)$	C
qque_2332	$(q_2 C q_3)(u_3 C e_2)$	C
qque_2333	$(q_2 C q_3)(u_3 C e_3)$	C
qque_3311	$(q_3 C q_3)(u_1 C e_1)$	C
qque_3312	$(q_3 C q_3)(u_1 C e_2)$	C
qque_3313	$(q_3 C q_3)(u_1 C e_3)$	C
qque_3321	$(q_3 C q_3)(u_2 C e_1)$	C
qque_3322	$(q_3 C q_3)(u_2 C e_2)$	C
qque_3323	$(q_3 C q_3)(u_2 C e_3)$	C
qque_3331	$(q_3 C q_3)(u_3 C e_1)$	C
qque_3332	$(q_3 C q_3)(u_3 C e_2)$	C
qque_3333	$(q_3 C q_3)(u_3 C e_3)$	C
qqql_1111	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_1 C \ell_1)$	C
qqql_1112	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_1 C \ell_2)$	C
qqql_1113	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_1 C \ell_3)$	C
qqql_1121	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_2 C \ell_1)$	C
qqql_1122	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_2 C \ell_2)$	C
qqql_1123	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_2 C \ell_3)$	C
qqql_1131	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_3 C \ell_1)$	C
qqql_1132	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_3 C \ell_2)$	C
qqql_1133	$\epsilon_{il}\epsilon_{jk}(q_1 C q_1)(q_3 C \ell_3)$	C
qqql_1211	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_1 C \ell_1)$	C
qqql_1212	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_1 C \ell_2)$	C
qqql_1213	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_1 C \ell_3)$	C
qqql_1221	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_2 C \ell_1)$	C
qqql_1222	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_2 C \ell_2)$	C
qqql_1223	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_2 C \ell_3)$	C
qqql_1231	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_3 C \ell_1)$	C
qqql_1232	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_3 C \ell_2)$	C
qqql_1233	$\epsilon_{il}\epsilon_{jk}(q_1 C q_2)(q_3 C \ell_3)$	C
qqql_1311	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_1 C \ell_1)$	C
qqql_1312	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_1 C \ell_2)$	C
qqql_1313	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_1 C \ell_3)$	C
qqql_1321	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_2 C \ell_1)$	C
qqql_1322	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_2 C \ell_2)$	C
qqql_1323	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_2 C \ell_3)$	C
qqql_1331	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_3 C \ell_1)$	C
qqql_1332	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_3 C \ell_2)$	C
qqql_1333	$\epsilon_{il}\epsilon_{jk}(q_1 C q_3)(q_3 C \ell_3)$	C
qqql_2121	$\epsilon_{il}\epsilon_{jk}(q_2 C q_1)(q_2 C \ell_1)$	C

WC name	Operator	Type
qqql_2122	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_1)\,(q_2 C \ell_2)$	C
qqql_2123	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_1)\,(q_2 C \ell_3)$	C
qqql_2131	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_1)\,(q_3 C \ell_1)$	C
qqql_2132	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_1)\,(q_3 C \ell_2)$	C
qqql_2133	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_1)\,(q_3 C \ell_3)$	C
qqql_2221	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_2)\,(q_2 C \ell_1)$	C
qqql_2222	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_2)\,(q_2 C \ell_2)$	C
qqql_2223	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_2)\,(q_2 C \ell_3)$	C
qqql_2231	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_2)\,(q_3 C \ell_1)$	C
qqql_2232	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_2)\,(q_3 C \ell_2)$	C
qqql_2233	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_2)\,(q_3 C \ell_3)$	C
qqql_2311	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_1 C \ell_1)$	C
qqql_2312	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_1 C \ell_2)$	C
qqql_2313	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_1 C \ell_3)$	C
qqql_2321	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_2 C \ell_1)$	C
qqql_2322	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_2 C \ell_2)$	C
qqql_2323	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_2 C \ell_3)$	C
qqql_2331	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_3 C \ell_1)$	C
qqql_2332	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_3 C \ell_2)$	C
qqql_2333	$\epsilon_{il}\epsilon_{jk}\,(q_2 C q_3)\,(q_3 C \ell_3)$	C
qqql_3131	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_1)\,(q_3 C \ell_1)$	C
qqql_3132	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_1)\,(q_3 C \ell_2)$	C
qqql_3133	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_1)\,(q_3 C \ell_3)$	C
qqql_3231	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_2)\,(q_3 C \ell_1)$	C
qqql_3232	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_2)\,(q_3 C \ell_2)$	C
qqql_3233	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_2)\,(q_3 C \ell_3)$	C
qqql_3331	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_3)\,(q_3 C \ell_1)$	C
qqql_3332	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_3)\,(q_3 C \ell_2)$	C
qqql_3333	$\epsilon_{il}\epsilon_{jk}\,(q_3 C q_3)\,(q_3 C \ell_3)$	C
duue_1111	$(d_1 C u_1)\,(u_1 C e_1)$	C
duue_1112	$(d_1 C u_1)\,(u_1 C e_2)$	C
duue_1113	$(d_1 C u_1)\,(u_1 C e_3)$	C
duue_1121	$(d_1 C u_1)\,(u_2 C e_1)$	C
duue_1122	$(d_1 C u_1)\,(u_2 C e_2)$	C
duue_1123	$(d_1 C u_1)\,(u_2 C e_3)$	C
duue_1131	$(d_1 C u_1)\,(u_3 C e_1)$	C
duue_1132	$(d_1 C u_1)\,(u_3 C e_2)$	C
duue_1133	$(d_1 C u_1)\,(u_3 C e_3)$	C
duue_1211	$(d_1 C u_2)\,(u_1 C e_1)$	C
duue_1212	$(d_1 C u_2)\,(u_1 C e_2)$	C
duue_1213	$(d_1 C u_2)\,(u_1 C e_3)$	C
duue_1221	$(d_1 C u_2)\,(u_2 C e_1)$	C
duue_1222	$(d_1 C u_2)\,(u_2 C e_2)$	C
duue_1223	$(d_1 C u_2)\,(u_2 C e_3)$	C

WC name	Operator	Type
duue_1231	$(d_1Cu_2)(u_3Ce_1)$	C
duue_1232	$(d_1Cu_2)(u_3Ce_2)$	C
duue_1233	$(d_1Cu_2)(u_3Ce_3)$	C
duue_1311	$(d_1Cu_3)(u_1Ce_1)$	C
duue_1312	$(d_1Cu_3)(u_1Ce_2)$	C
duue_1313	$(d_1Cu_3)(u_1Ce_3)$	C
duue_1321	$(d_1Cu_3)(u_2Ce_1)$	C
duue_1322	$(d_1Cu_3)(u_2Ce_2)$	C
duue_1323	$(d_1Cu_3)(u_2Ce_3)$	C
duue_1331	$(d_1Cu_3)(u_3Ce_1)$	C
duue_1332	$(d_1Cu_3)(u_3Ce_2)$	C
duue_1333	$(d_1Cu_3)(u_3Ce_3)$	C
duue_2111	$(d_2Cu_1)(u_1Ce_1)$	C
duue_2112	$(d_2Cu_1)(u_1Ce_2)$	C
duue_2113	$(d_2Cu_1)(u_1Ce_3)$	C
duue_2121	$(d_2Cu_1)(u_2Ce_1)$	C
duue_2122	$(d_2Cu_1)(u_2Ce_2)$	C
duue_2123	$(d_2Cu_1)(u_2Ce_3)$	C
duue_2131	$(d_2Cu_1)(u_3Ce_1)$	C
duue_2132	$(d_2Cu_1)(u_3Ce_2)$	C
duue_2133	$(d_2Cu_1)(u_3Ce_3)$	C
duue_2211	$(d_2Cu_2)(u_1Ce_1)$	C
duue_2212	$(d_2Cu_2)(u_1Ce_2)$	C
duue_2213	$(d_2Cu_2)(u_1Ce_3)$	C
duue_2221	$(d_2Cu_2)(u_2Ce_1)$	C
duue_2222	$(d_2Cu_2)(u_2Ce_2)$	C
duue_2223	$(d_2Cu_2)(u_2Ce_3)$	C
duue_2231	$(d_2Cu_2)(u_3Ce_1)$	C
duue_2232	$(d_2Cu_2)(u_3Ce_2)$	C
duue_2233	$(d_2Cu_2)(u_3Ce_3)$	C
duue_2311	$(d_2Cu_3)(u_1Ce_1)$	C
duue_2312	$(d_2Cu_3)(u_1Ce_2)$	C
duue_2313	$(d_2Cu_3)(u_1Ce_3)$	C
duue_2321	$(d_2Cu_3)(u_2Ce_1)$	C
duue_2322	$(d_2Cu_3)(u_2Ce_2)$	C
duue_2323	$(d_2Cu_3)(u_2Ce_3)$	C
duue_2331	$(d_2Cu_3)(u_3Ce_1)$	C
duue_2332	$(d_2Cu_3)(u_3Ce_2)$	C
duue_2333	$(d_2Cu_3)(u_3Ce_3)$	C
duue_3111	$(d_3Cu_1)(u_1Ce_1)$	C
duue_3112	$(d_3Cu_1)(u_1Ce_2)$	C
duue_3113	$(d_3Cu_1)(u_1Ce_3)$	C
duue_3121	$(d_3Cu_1)(u_2Ce_1)$	C
duue_3122	$(d_3Cu_1)(u_2Ce_2)$	C

WC name	Operator	Type
duue_3123	$(d_3 C u_1)(u_2 C e_3)$	C
duue_3131	$(d_3 C u_1)(u_3 C e_1)$	C
duue_3132	$(d_3 C u_1)(u_3 C e_2)$	C
duue_3133	$(d_3 C u_1)(u_3 C e_3)$	C
duue_3211	$(d_3 C u_2)(u_1 C e_1)$	C
duue_3212	$(d_3 C u_2)(u_1 C e_2)$	C
duue_3213	$(d_3 C u_2)(u_1 C e_3)$	C
duue_3221	$(d_3 C u_2)(u_2 C e_1)$	C
duue_3222	$(d_3 C u_2)(u_2 C e_2)$	C
duue_3223	$(d_3 C u_2)(u_2 C e_3)$	C
duue_3231	$(d_3 C u_2)(u_3 C e_1)$	C
duue_3232	$(d_3 C u_2)(u_3 C e_2)$	C
duue_3233	$(d_3 C u_2)(u_3 C e_3)$	C
duue_3311	$(d_3 C u_3)(u_1 C e_1)$	C
duue_3312	$(d_3 C u_3)(u_1 C e_2)$	C
duue_3313	$(d_3 C u_3)(u_1 C e_3)$	C
duue_3321	$(d_3 C u_3)(u_2 C e_1)$	C
duue_3322	$(d_3 C u_3)(u_2 C e_2)$	C
duue_3323	$(d_3 C u_3)(u_2 C e_3)$	C
duue_3331	$(d_3 C u_3)(u_3 C e_1)$	C
duue_3332	$(d_3 C u_3)(u_3 C e_2)$	C
duue_3333	$(d_3 C u_3)(u_3 C e_3)$	C

`dL=2`

WC name	Operator	Type
llphiphi_11	$\left(\widetilde{\varphi}^\dagger \ell_1\right)^T C \left(\widetilde{\varphi}^\dagger \ell_1\right)$	C
llphiphi_12	$\left(\widetilde{\varphi}^\dagger \ell_1\right)^T C \left(\widetilde{\varphi}^\dagger \ell_2\right)$	C
llphiphi_13	$\left(\widetilde{\varphi}^\dagger \ell_1\right)^T C \left(\widetilde{\varphi}^\dagger \ell_3\right)$	C
llphiphi_22	$\left(\widetilde{\varphi}^\dagger \ell_2\right)^T C \left(\widetilde{\varphi}^\dagger \ell_2\right)$	C
llphiphi_23	$\left(\widetilde{\varphi}^\dagger \ell_2\right)^T C \left(\widetilde{\varphi}^\dagger \ell_3\right)$	C
llphiphi_33	$\left(\widetilde{\varphi}^\dagger \ell_3\right)^T C \left(\widetilde{\varphi}^\dagger \ell_3\right)$	C