# Basis JMS (EFT WET)

Basis suggested by Jenkins, Manohar, and Stoffer (arXiv:1709.04486). Currently only includes baryon and lepton number conserving operators. Neutrinos are in the flavour basis.

## Sectors

The effective Lagrangian is defined as

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

sbsb

WC name	Operator	Type
VddLL_2323	$(\bar{s}_L \gamma^\mu b_L)(\bar{s}_L \gamma_\mu b_L)$	С
VddRR_2323	$(\bar{s}_R \gamma^\mu b_R)(\bar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_2323	$(\bar{s}_L \gamma^\mu b_L)(\bar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8ddLR_2323	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
S1ddRR_2323	$(\bar{s}_L b_R)(\bar{s}_L b_R)$	$\mathbf{C}$
S1ddRR_3232	$(ar{b}_L s_R)(ar{b}_L s_R)$	$\mathbf{C}$
S8ddRR_2323	$(\bar{s}_L T^A b_R)(\bar{s}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_3232	$(\bar{b}_L T^A s_R)(\bar{b}_L T^A s_R)$	$\mathbf{C}$

### dbdb

WC name	Operator	Type
VddLL_1313	$(\bar{d}_L \gamma^\mu b_L)(\bar{d}_L \gamma_\mu b_L)$	С
VddRR_1313	$(\bar{d}_R \gamma^\mu b_R)(\bar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_1313	$(ar{d}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8ddLR_1313	$(\bar{d}_L \gamma^\mu T^A b_L) (\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
S1ddRR_1313	$(ar{d}_L b_R)(ar{d}_L b_R)$	$\mathbf{C}$
S1ddRR_3131	$(ar{b}_L d_R)(ar{b}_L d_R)$	$\mathbf{C}$
S8ddRR_1313	$(\bar{d}_L T^A b_R)(\bar{d}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_3131	$(\bar{b}_L T^A d_R)(\bar{b}_L T^A d_R)$	С

sdsd

WC name	Operator	Type
VddLL_1212	$(ar{d}_L \gamma^\mu s_L) (ar{d}_L \gamma_\mu s_L)$	С
VddRR_1212	$(ar{d}_R \gamma^\mu s_R) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_1212	$(ar{d}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V8ddLR_1212	$(\bar{d}_L \gamma^\mu T^A s_L) (\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
S1ddRR_1212	$(ar{d}_L s_R)(ar{d}_L s_R)$	$\mathbf{C}$
S1ddRR_2121	$(\bar{s}_L d_R)(\bar{s}_L d_R)$	$\mathbf{C}$
S8ddRR_1212	$(\bar{d}_L T^A s_R)(\bar{d}_L T^A s_R)$	$\mathbf{C}$
S8ddRR_2121	$(\bar{s}_L T^A d_R)(\bar{s}_L T^A d_R)$	$\mathbf{C}$

### cucu

WC name	Operator	Type
VuuLL_1212	$(\bar{u}_L \gamma^\mu c_L)(\bar{u}_L \gamma_\mu c_L)$	С
VuuRR_1212	$(\bar{u}_R \gamma^\mu c_R)(\bar{u}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1uuLR_1212	$(\bar{u}_L \gamma^\mu c_L)(\bar{u}_R \gamma_\mu c_R)$	$\mathbf{C}$
V8uuLR_1212	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{u}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
S1uuRR_1212	$(\bar{u}_L c_R)(\bar{u}_L c_R)$	$\mathbf{C}$
S1uuRR_2121	$(\bar{c}_L u_R)(\bar{c}_L u_R)$	$\mathbf{C}$
S8uuRR_1212	$(\bar{u}_L T^A c_R)(\bar{u}_L T^A c_R)$	$\mathbf{C}$
S8uuRR_2121	$(\bar{c}_L T^A u_R)(\bar{c}_L T^A u_R)$	$\mathbf{C}$

# dbsb

WC name	Operator	Type
VddLL_1323	$(ar{d}_L \gamma^\mu b_L) (ar{s}_L \gamma_\mu b_L)$	С
VddRR_1323	$(\bar{d}_R \gamma^\mu b_R)(\bar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_1323	$(ar{d}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_2313	$(\bar{s}_L \gamma^\mu b_L)(\bar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8ddLR_1323	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_2313	$(\bar{s}_L \gamma^\mu T^A b_L) (\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
S1ddRR_1323	$(ar{d}_L b_R)(ar{s}_L b_R)$	$\mathbf{C}$
S1ddRR_3132	$(ar{b}_L d_R)(ar{b}_L s_R)$	$\mathbf{C}$
S8ddRR_1323	$(\bar{d}_L T^A b_R)(\bar{s}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_3132	$(\bar{b}_L T^A d_R)(\bar{b}_L T^A s_R)$	$\mathbf{C}$

sbuc

WC name	Operator	Type
V1udLL_1223	$(\bar{u}_L \gamma^\mu c_L)(\bar{s}_L \gamma_\mu b_L)$	C
V8udLL_1223	$(\bar{u}_L \gamma^\mu T^A c_L) (\bar{s}_L \gamma_\mu T^A b_L)$	$\mathbf{C}$
V1udRR_1223	$(\bar{u}_R \gamma^\mu c_R)(\bar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udRR_1223	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V1udLR_1223	$(\bar{u}_L \gamma^\mu c_L)(\bar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udLR_1223	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V1duLR_2312	$(\bar{s}_L \gamma^\mu b_L)(\bar{u}_R \gamma_\mu c_R)$	$\mathbf{C}$
V8duLR_2312	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V1udduLR_1322	$(\bar{u}_L \gamma^\mu b_L)(\bar{s}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1udduLR_2231	$(\bar{c}_L \gamma^\mu s_L)(\bar{b}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8udduLR_1322	$(\bar{u}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2231	$(\bar{c}_L \gamma^\mu T^A s_L)(\bar{b}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
S1udRR_1223	$(ar{u}_L c_R)(ar{s}_L b_R)$	$\mathbf{C}$
S1udRR_2132	$(\bar{c}_L u_R)(\bar{b}_L s_R)$	$\mathbf{C}$
S8udRR_1223	$(\bar{u}_L T^A c_R)(\bar{s}_L T^A b_R)$	$\mathbf{C}$
S8udRR_2132	$(\bar{c}_L T^A u_R)(\bar{b}_L T^A s_R)$	$\mathbf{C}$
S1udduRR_1322	$(ar{u}_L b_R)(ar{s}_L c_R)$	$\mathbf{C}$
S1udduRR_2231	$(\bar{c}_L s_R)(\bar{b}_L u_R)$	$\mathbf{C}$
S8udduRR_1322	$(\bar{u}_L T^A \hat{b}_R)(\bar{s}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2231	$(\bar{c}_L T^A s_R)(\bar{b}_L T^A u_R)$	С

## sbcu

WC name	Operator	Type
V1udLL_1232	$(\bar{u}_L \gamma^\mu c_L)(\bar{b}_L \gamma_\mu s_L)$	$\overline{C}$
V8udLL_1232	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{b}_L \gamma_\mu T^A s_L)$	$\mathbf{C}$
V1udRR_1232	$(\bar{u}_R \gamma^\mu c_R)(\bar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
V8udRR_1232	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{b}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V1udLR_1232	$(ar{u}_L \gamma^\mu c_L) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
V8udLR_1232	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{b}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V1duLR_2321	$(\bar{s}_L \gamma^\mu b_L)(\bar{c}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8duLR_2321	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{c}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V1udduLR_1232	$(ar{u}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1udduLR_2321	$(\bar{c}_L \gamma^\mu b_L)(\bar{s}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
V8udduLR_1232	$(\bar{u}_L \gamma^\mu T^A s_L)(\bar{b}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2321	$(\bar{c}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
S1udRR_1232	$(ar{u}_L c_R)(ar{b}_L s_R)$	$\mathbf{C}$
S1udRR_2123	$(\bar{c}_L u_R)(\bar{s}_L b_R)$	$\mathbf{C}$
S8udRR_1232	$(\bar{u}_L T^A c_R)(\bar{b}_L T^A s_R)$	$\mathbf{C}$
S8udRR_2123	$(\bar{c}_L T^A u_R)(\bar{s}_L T^A b_R)$	$\mathbf{C}$
S1udduRR_1232	$(ar{u}_L s_R)(ar{b}_L c_R)$	$\mathbf{C}$
S1udduRR_2321	$(\bar{c}_L b_R)(\bar{s}_L u_R)$	$\mathbf{C}$

WC name	Operator	Type
S8udduRR_1232	$(\bar{u}_L T^A s_R)(\bar{b}_L T^A c_R)$	С
S8udduRR_2321	$(\bar{c}_L T^A b_R)(\bar{s}_L T^A u_R)$	$\mathbf{C}$

## dbuc

WC name	Operator	Type
V1udLL_1213	$(\bar{u}_L \gamma^\mu c_L)(\bar{d}_L \gamma_\mu b_L)$	С
V8udLL_1213	$(\bar{u}_L \gamma^\mu T^A c_L) (\bar{d}_L \gamma_\mu T^A b_L)$	$\mathbf{C}$
V1udRR_1213	$(\bar{u}_R \gamma^\mu c_R) (\bar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udRR_1213	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{d}_R \gamma_\mu T^A b_R)$	С
V1udLR_1213	$(\bar{u}_L \gamma^\mu c_L)(\bar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udLR_1213	$(\bar{u}_L \gamma^\mu T^A c_L) (\bar{d}_R \gamma_\mu T^A b_R)$	С
V1duLR_1312	$(\bar{d}_L \gamma^\mu b_L)(\bar{u}_R \gamma_\mu c_R)$	$\mathbf{C}$
V8duLR_1312	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V1udduLR_1312	$(\bar{u}_L \gamma^\mu b_L)(\bar{d}_R \gamma_\mu c_R)$	С
V1udduLR_2131	$(\bar{c}_L \gamma^\mu d_L)(\bar{b}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8udduLR_1312	$(\bar{u}_L \gamma^\mu T^A b_L) (\bar{d}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2131	$(\bar{c}_L \gamma^\mu T^A d_L)(\bar{b}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
S1udRR_1213	$(ar{u}_L c_R)(ar{d}_L b_R)$	$\mathbf{C}$
S1udRR_2131	$(\bar{c}_L u_R)(\bar{b}_L d_R)$	$\mathbf{C}$
S8udRR_1213	$(\bar{u}_L T^A c_R)(\bar{d}_L T^A b_R)$	$\mathbf{C}$
S8udRR_2131	$(\bar{c}_L T^A u_R)(\bar{b}_L T^A d_R)$	$\mathbf{C}$
S1udduRR_1312	$(ar{u}_L b_R)(ar{d}_L c_R)$	$\mathbf{C}$
S1udduRR_2131	$(ar{c}_L d_R)(ar{b}_L u_R)$	$\mathbf{C}$
S8udduRR_1312	$(\bar{u}_L T^A b_R)(\bar{d}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2131	$(\bar{c}_L T^A d_R)(\bar{b}_L T^A u_R)$	$\mathbf{C}$

## dbcu

WC name	Operator	Type
V1udLL_1231	$(\bar{u}_L \gamma^\mu c_L)(\bar{b}_L \gamma_\mu d_L)$	С
V8udLL_1231	$(\bar{u}_L \gamma^\mu T^A c_L) (\bar{b}_L \gamma_\mu T^A d_L)$	С
V1udRR_1231	$(\bar{u}_R \gamma^\mu c_R)(\bar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
V8udRR_1231	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{b}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V1udLR_1231	$(ar{u}_L \gamma^\mu c_L) (ar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
V8udLR_1231	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{b}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V1duLR_1321	$(ar{d}_L \gamma^\mu b_L) (ar{c}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8duLR_1321	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{c}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V1udduLR_1132	$(\bar{u}_L \gamma^\mu d_L)(\bar{b}_R \gamma_\mu c_R)$	$\mathbf{C}$

WC name	Operator	Type
V1udduLR_2311	$(\bar{c}_L \gamma^\mu b_L)(\bar{d}_R \gamma_\mu u_R)$	С
V8udduLR_1132	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{b}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2311	$(\bar{c}_L \gamma^\mu T^A b_L) (\bar{d}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
S1udRR_1231	$(ar{u}_L c_R)(ar{b}_L d_R)$	$\mathbf{C}$
S1udRR_2113	$(ar{c}_L u_R)(ar{d}_L b_R)$	$\mathbf{C}$
S8udRR_1231	$(\bar{u}_L T^A c_R)(\bar{b}_L T^A d_R)$	$\mathbf{C}$
S8udRR_2113	$(\bar{c}_L T^A u_R)(\bar{d}_L T^A b_R)$	$\mathbf{C}$
S1udduRR_1132	$(ar{u}_L d_R)(ar{b}_L c_R)$	$\mathbf{C}$
S1udduRR_2311	$(ar{c}_L b_R)(ar{d}_L u_R)$	$\mathbf{C}$
S8udduRR_1132	$(\bar{u}_L T^A d_R)(\bar{b}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2311	$(\bar{c}_L T^A b_R)(\bar{d}_L T^A u_R)$	$\mathbf{C}$

## sduc

WC name	Operator	Type
V1udLL 1221	$(\bar{u}_L \gamma^\mu c_L)(\bar{s}_L \gamma_\mu d_L)$	$\frac{1}{C}$
V8udLL_1221	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{s}_L \gamma_\mu T^A d_L)$	$\mathbf{C}$
V1udRR_1221	$(\bar{u}_R \gamma^\mu c_R)(\bar{s}_R \gamma_\mu d_R)$	$\mathbf{C}$
V8udRR_1221	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{s}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V1udLR_1221	$(\bar{u}_L \gamma^\mu c_L)(\bar{s}_R \gamma_\mu d_R)$	$\mathbf{C}$
V8udLR_1221	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{s}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V1duLR_1221	$(\bar{d}_L \gamma^\mu s_L)(\bar{c}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8duLR_1221	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{c}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V1udduLR_1122	$(\bar{u}_L \gamma^\mu d_L)(\bar{s}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1udduLR_2211	$(\bar{c}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8udduLR_1122	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2211	$(\bar{c}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
S1udRR_1221	$(\bar{u}_L c_R)(\bar{s}_L d_R)$	$\mathbf{C}$
S1udRR_2112	$(ar{c}_L u_R)(ar{d}_L s_R)$	$\mathbf{C}$
S8udRR_1221	$(\bar{u}_L T^A c_R)(\bar{s}_L T^A d_R)$	$\mathbf{C}$
S8udRR_2112	$(\bar{c}_L T^A u_R)(\bar{d}_L T^A s_R)$	$\mathbf{C}$
S1udduRR_1122	$(\bar{u}_L d_R)(\bar{s}_L c_R)$	$\mathbf{C}$
S1udduRR_2211	$(ar{c}_L s_R)(ar{d}_L u_R)$	$\mathbf{C}$
S8udduRR_1122	$(\bar{u}_L T^A d_R)(\bar{s}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2211	$(\bar{c}_L T^A s_R)(\bar{d}_L T^A u_R)$	$\mathbf{C}$

# sdcu

WC name	Operator	Type
V1udLL_1212	$(\bar{u}_L \gamma^\mu c_L)(\bar{d}_L \gamma_\mu s_L)$	С

WC name	Operator	Type
V8udLL_1212	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{d}_L \gamma_\mu T^A s_L)$	С
V1udRR_1212	$(\bar{u}_R \gamma^\mu c_R)(\bar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V8udRR_1212	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V1udLR_1212	$(ar{u}_L \gamma^\mu c_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V8udLR_1212	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V1duLR_1212	$(ar{d}_L \gamma^\mu s_L) (ar{u}_R \gamma_\mu c_R)$	$\mathbf{C}$
V8duLR_1212	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{u}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V1udduLR_1212	$(ar{u}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1udduLR_2121	$(\bar{c}_L \gamma^\mu d_L)(\bar{s}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8udduLR_1212	$(\bar{u}_L \gamma^\mu T^A s_L) (\bar{d}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2121	$(\bar{c}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
S1udRR_1212	$(ar{u}_L c_R)(ar{d}_L s_R)$	$\mathbf{C}$
S1udRR_2121	$(\bar{c}_L u_R)(\bar{s}_L d_R)$	$\mathbf{C}$
S8udRR_1212	$(\bar{u}_L T^A c_R)(\bar{d}_L T^A s_R)$	$\mathbf{C}$
S8udRR_2121	$(\bar{c}_L T^A u_R)(\bar{s}_L T^A d_R)$	$\mathbf{C}$
S1udduRR_1212	$(ar{u}_L s_R)(ar{d}_L c_R)$	$\mathbf{C}$
S1udduRR_2121	$(\bar{c}_L d_R)(\bar{s}_L u_R)$	$\mathbf{C}$
S8udduRR_1212	$(\bar{u}_L T^A s_R)(\bar{d}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2121	$(\bar{c}_L T^A d_R)(\bar{s}_L T^A u_R)$	С

## sbsd

WC name	Operator	Type
VddLL_1232	$(\bar{d}_L \gamma^\mu s_L)(\bar{b}_L \gamma_\mu s_L)$	
VddRR_1232	$(ar{d}_R \gamma^\mu s_R) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_1232	$(ar{d}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_2321	$(\bar{s}_L \gamma^\mu b_L)(\bar{s}_R \gamma_\mu d_R)$	$\mathbf{C}$
V8ddLR_1232	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{b}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V8ddLR_2321	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
S1ddRR_1232	$(ar{d}_L s_R)(ar{b}_L s_R)$	$\mathbf{C}$
S1ddRR_2123	$(ar{s}_L d_R)(ar{s}_L b_R)$	$\mathbf{C}$
S8ddRR_1232	$(\bar{d}_L T^A s_R)(\bar{b}_L T^A s_R)$	$\mathbf{C}$
S8ddRR_2123	$(\bar{s}_L T^A d_R)(\bar{s}_L T^A b_R)$	$\mathbf{C}$

# dbds

WC name	Operator	Type
VddLL_1213	$(\bar{d}_L \gamma^\mu s_L)(\bar{d}_L \gamma_\mu b_L)$	$\overline{C}$
VddRR_1213	$(\bar{d}_R \gamma^\mu s_R)(\bar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$

WC name	Operator	Type
V1ddLR_1213	$(\bar{d}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu b_R)$	С
V1ddLR_1312	$(ar{d}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V8ddLR_1213	$(\bar{d}_L \gamma^\mu T^A s_L) (\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_1312	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
S1ddRR_1213	$(ar{d}_L s_R)(ar{d}_L b_R)$	$\mathbf{C}$
S1ddRR_2131	$(ar{s}_L d_R)(ar{b}_L d_R)$	$\mathbf{C}$
S8ddRR_1213	$(\bar{d}_L T^A s_R)(\bar{d}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_2131	$(\bar{s}_L T^A d_R)(\bar{b}_L T^A d_R)$	С

# sb

WC name	Operator	Type
dgamma_23	$\bar{s}_L \sigma^{\mu  u} b_R F_{\mu  u}$	C
dgamma_32	$ar{b}_L \sigma^{\mu u} s_R  F_{\mu u}$	$\mathbf{C}$
dG_23	$ar{s}_L \sigma^{\mu u} T^A b_R^{\cdot} G^A_{\mu u}$	$^{\mathrm{C}}$
dG_32	$ar{b}_L \sigma^{\mu u} T^A s_R G_{\mu u}^A$	$\mathbf{C}$
VedLL_1123	$(ar{e}_L \gamma^\mu e_L) (ar{s}_L \gamma^\prime_\mu b_L)$	$^{\mathrm{C}}$
VedLL_2223	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{s}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
VedLL_3323	$(ar au_L\gamma^\mu au_L)(ar s_L\gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_1123	$(ar{d}_L \gamma^\mu d_L) (ar{s}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_1231	$(ar{d}_L \gamma^\mu s_L) (ar{b}_L \gamma_\mu d_L)$	$\mathbf{C}$
VddLL_2223	$(ar{s}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_2333	$(ar{s}_L\gamma^\mu b_L)(ar{b}_L\gamma_\mu b_L)$	$\mathbf{C}$
V1udLL_1123	$(ar{u}_L \gamma^\mu u_L) (ar{s}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
V1udLL_2223	$(ar{c}_L \gamma^\mu c_L) (ar{s}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
V8udLL_1123	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_L \gamma_\mu T^A b_L)$	$^{\mathrm{C}}$
V8udLL_2223	$(ar{c}_L \gamma^\mu T^A c_L) (ar{s}_L \gamma_\mu T^A b_L)$	$^{\mathrm{C}}$
VedRR_1123	$(ar{e}_R \gamma^\mu e_R) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedRR_2223	$(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedRR_3323	$(ar{ au}_R\gamma^\mu au_R)(ar{s}_R\gamma_\mu b_R)$	$\mathbf{C}$
VddRR_1123	$(ar{d}_R \gamma^\mu d_R) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VddRR_1231	$(ar{d}_R\gamma^\mu s_R)(ar{b}_R\gamma_\mu d_R)$	$^{\mathrm{C}}$
VddRR_2223	$(ar{s}_R \gamma^\mu s_R) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VddRR_2333	$(ar{s}_R \gamma^\mu b_R) (ar{b}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1udRR_1123	$(ar{u}_R \gamma^\mu u_R) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1udRR_2223	$(ar{c}_R \gamma^\mu c_R) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V8udRR_1123	$(\bar{u}_R \gamma^\mu T^A u_R)(\bar{s}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V8udRR_2223	$(\bar{c}_R \gamma^\mu T^A c_R)(\bar{s}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
VedLR_1123	$(ar{e}_L \gamma^\mu e_L) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedLR_2223	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedLR_3323	$(ar{ au}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VdeLR_2311	$(\bar{s}_L \gamma^\mu b_L)(\bar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
VdeLR_2322	$(\bar{s}_L \gamma^\mu b_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	С
VdeLR_2333	$(ar{s}_L \gamma^\mu b_L) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
V1udLR_1123	$(\bar{u}_L \gamma^\mu u_L)(\bar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1udLR_2223	$(ar{c}_L \gamma^\mu c_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udLR_1123	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V8udLR_2223	$(ar{c}_L \gamma^\mu T^A c_L) (ar{s}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V1duLR_2311	$(\bar{s}_L \gamma^\mu b_L)(\bar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
V1duLR_2322	$(ar{s}_L \gamma^\mu b_L)(ar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
V8duLR_2311	$(\bar{s}_L \gamma^\mu T^A b_L) (\bar{u}_R \gamma_\mu T^A u_R)$	C
V8duLR_2322	$(\bar{s}_L \gamma^\mu T^A b_L) (\bar{c}_R \gamma_\mu T^A c_R)$	C
V1ddLR_1123	$(ar{d}_L \gamma^\mu d_L) (ar{ar{s}}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1ddLR_1231	$(ar{d}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_1321	$(ar{d}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_2223	$(ar{s}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1ddLR_2311	$(ar{s}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_2322	$(ar{s}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1ddLR_2333	$(ar{s}_L \gamma^\mu b_L)(b_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1ddLR_3323	$(ar{b}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8ddLR_1123	$(ar{d}_L \gamma^\mu T^A d_L) (ar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_1231	$(ar{d}_L \gamma^\mu T^A s_L) (ar{b}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V8ddLR_1321	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V8ddLR_2223	$(\bar{s}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_2311	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A d_R)$	$^{\mathrm{C}}$
V8ddLR_2322	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V8ddLR_2333	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V8ddLR_3323	$(ar{b}_L \gamma^\mu T^A b_L) (ar{s}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V1udduLR_1231	$(ar{u}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
V1udduLR_1321	$(ar{u}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
V1udduLR_2232	$(ar{c}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
V1udduLR_2322	$(ar{c}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
V8udduLR_1231	$(\bar{u}_L \gamma^\mu T^A s_L)(\bar{b}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_1321	$(\bar{u}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_2232	$(\bar{c}_L \gamma^\mu T^A s_L) (\bar{b}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
V8udduLR_2322	$(\bar{c}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
SedRL_1123	$(ar{e}_L e_R)(ar{s}_R b_L)$	$^{\mathrm{C}}$
SedRL_1132	$(ar{e}_L e_R)(ar{b}_R s_L)$	$^{\mathrm{C}}$
SedRL_2223	$(ar{\mu}_L\mu_R)(ar{s}_Rb_L)$	$^{\mathrm{C}}$
SedRL_2232	$(ar{\mu}_L\mu_R)(ar{b}_Rs_L)$	$^{\mathrm{C}}$
SedRL_3323	$(ar{ au}_L au_R)(ar{s}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3332	$(ar{ au}_L au_R)(ar{b}_Rs_L)$	$\mathbf{C}$
SedRR_1123	$(ar{e}_L e_R)(ar{s}_L b_R)$	$^{\mathrm{C}}$
SedRR_1132	$(ar{e}_L e_R)(ar{b}_L s_R)$	$\mathbf{C}$
SedRR_2223	$(ar{\mu}_L\mu_R)(ar{s}_Lb_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
SedRR_2232	$(ar{\mu}_L\mu_R)(ar{b}_Ls_R)$	C
SedRR_3323	$(ar{ au}_L au_R)(ar{s}_Lb_R)$	$\mathbf{C}$
SedRR_3332	$(ar{ au}_L au_R)(ar{b}_Ls_R)$	$\mathbf{C}$
TedRR_1123	$(ar{e}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}b_R)$	$^{\mathrm{C}}$
TedRR_1132	$(ar{e}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
TedRR_2223	$(\bar{\mu}_L \sigma^{\mu\nu} \mu_R) (\bar{s}_L \sigma_{\mu\nu} b_R)$	$\mathbf{C}$
TedRR_2232	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{b}_L \sigma_{\mu  u} s_R)$	$\mathbf{C}$
TedRR_3323	$(ar au_L\sigma^{\mu u} au_R)(ar s_L\sigma_{\mu u}b_R)$	$\mathbf{C}$
TedRR_3332	$(ar au_L\sigma^{\mu u} au_R)(ar b_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
S1udRR_1123	$(ar{u}_L u_R)(ar{s}_L b_R)$	$^{\mathrm{C}}$
S1udRR_1132	$(ar{u}_L u_R)(b_L s_R)$	$^{\mathrm{C}}$
S1udRR_2223	$(ar{c}_L c_R)(ar{s}_L b_R)$	$^{\mathrm{C}}$
S1udRR_2232	$(\bar{c}_L c_R)(b_L s_R)$	$^{\mathrm{C}}$
S8udRR_1123	$(ar{u}_L T^A u_R) (ar{s}_L T^A b_R)$	$\mathbf{C}$
S8udRR_1132	$(\bar{u}_L T^A u_R)(\bar{b}_L T^A s_R)$	$^{\mathrm{C}}$
S8udRR_2223	$(\bar{c}_L T^A c_R)(\bar{s}_L T^A b_R)$	С
S8udRR_2232	$(ar{c}_L T^A c_R) (b_L T^A s_R)$	$\mathbf{C}$
S1ddRR_1123	$(ar{d}_L d_R) (ar{ar{s}}_L b_R)$	$\mathbf{C}$
S1ddRR_1132	$(d_L d_R)(ar{b}_L s_R)$	$\mathbf{C}$
S1ddRR_1231	$(d_L s_R)(b_L d_R)$	$^{\mathrm{C}}$
S1ddRR_1321	$(d_L b_R)(ar{s}_L d_R)$	$^{\mathrm{C}}$
S1ddRR_2223	$(ar{s}_L s_R)(ar{s}_L b_R)$	$^{\mathrm{C}}$
S1ddRR_2232	$(ar{s}_L s_R)(ar{b}_L s_R)$	$^{\mathrm{C}}$
S1ddRR_2333	$(ar{s}_L b_R)(ar{b}_L b_R)$	$^{\mathrm{C}}$
S1ddRR_3233	$(b_{\!\scriptscriptstyle L} s_R)(b_L b_R)$	$^{\mathrm{C}}$
S8ddRR_1123	$(ar{d}_L T^A d_R) (ar{s}_L T^A b_R)$	$^{\mathrm{C}}$
S8ddRR_1132	$(d_L T^A d_R) (\underline{b}_L T^A s_R)$	$^{\mathrm{C}}$
S8ddRR_1231	$(ar{d}_L T^A s_R) (ar{b}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_1321	$(ar{d}_L T^A b_R) (ar{s}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_2223	$(ar{s}_L T^A s_R) (ar{s}_L T^A b_R)$	$^{\mathrm{C}}$
S8ddRR_2232	$(ar{s}_L T^A s_R) (ar{b}_L T^A s_R)$	$^{\mathrm{C}}$
S8ddRR_2333	$(ar{s}_L T^A b_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_3233	$(ar{b}_L T^A s_{ar{R}}) (ar{b}_L T^A b_R)$	$^{\mathrm{C}}$
S1udduRR_1231	$(ar{u}_L s_R)(ar{b}_L u_R)$	$^{\mathrm{C}}$
S1udduRR_1321	$(ar{u}_L b_R)(ar{s}_L u_R)$	$^{\mathrm{C}}$
S1udduRR_2232	$(ar{c}_L s_R)(b_L c_R)$	$^{\mathrm{C}}$
S1udduRR_2322	$(ar{c}_L b_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
S8udduRR_1231	$(\bar{u}_L T^A s_R)(\bar{b}_L T^A u_R)$	$^{\mathrm{C}}$
S8udduRR_1321	$(\bar{u}_L T^A b_R)(\bar{s}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_2232	$(ar{c}_L T^A_{} s_R) (ar{b}_L T^A_{} c_R)$	С
S8udduRR_2322	$(\bar{c}_L T^A b_R)(\bar{s}_L T^A c_R)$	C

WC name	Operator	Type
dgamma_13	$ar{d}_L \sigma^{\mu u} b_R  F_{\mu u}$	C
dgamma_31	$ar{b}_L \sigma^{\mu u} d_R  F_{\mu u}$	$^{\mathrm{C}}$
dG_13	$ar{d}_L \sigma^{\mu u} T^A b_R  G^A_{\mu u}$	$^{\mathrm{C}}$
dG_31	$ar{b}_L \sigma^{\mu u} T^A d_R  G^A_{\mu u}$	$\mathbf{C}$
VedLL_1113	$(ar{e}_L \gamma^\mu e_L) (ar{d}_L \dot{\gamma_\mu} b_L)$	$^{\mathrm{C}}$
VedLL_2213	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
VedLL_3313	$(ar au_L\gamma^\mu au_L)(ar d_L\gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_1113	$(ar{d}_L \gamma^\mu d_L) (ar{d}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_1223	$(ar{d}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_1322	$(ar{d}_L \gamma^\mu b_L) (ar{s}_L \gamma_\mu s_L)$	$^{\mathrm{C}}$
VddLL_1333	$(d_L \gamma^\mu b_L) (b_L \gamma_\mu b_L)$	$\mathbf{C}$
V1udLL_1113	$(ar{u}_L \gamma^\mu u_L) (ar{d}_L \gamma_\mu b_L)$	$\mathbf{C}$
V1udLL_2213	$(ar{c}_L \gamma^\mu c_L) (ar{d}_L \gamma_\mu b_L)$	$\mathbf{C}$
V8udLL_1113	$(ar{u}_L \gamma^\mu T^A u_L) (ar{d}_L \gamma_\mu T^A b_L)$	$^{\mathrm{C}}$
V8udLL_2213	$(ar{c}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A b_L)$	С
VedRR_1113	$(ar{e}_R \gamma^\mu e_R) (ar{d}_{ar{R}} \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedRR_2213	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu b_R)$	С
VedRR_3313	$(ar{ au}_R\gamma^\mu au_R)(d_R\gamma_\mu b_R)$	С
VddRR_1113	$(ar{d}_R\gamma^\mu d_R)(ar{d}_R\gamma_\mu b_R)$	С
VddRR_1223	$(ar{d}_R\gamma^\mu s_R)(ar{s}_R\gamma_\mu b_R)$	С
VddRR_1322	$(ar{d}_R\gamma^\mu b_R)(ar{s}_R\gamma_\mu s_R)$	С
VddRR_1333	$(d_R \gamma^\mu b_R) (b_{ar R} \gamma_\mu b_R)$	$\mathbf{C}$
V1udRR_1113	$(ar{u}_R \gamma^\mu u_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1udRR_2213	$(ar{c}_R \gamma^\mu c_R) (d_R \gamma_{\mu} b_R)$	С
V8udRR_1113	$(ar{u}_R\gamma^\mu T^A u_R)(ar{d}_R\gamma_\mu T^A b_R)$	$\mathbf{C}$
V8udRR_2213	$(ar{c}_R \gamma^\mu T^A c_{ar{R}}) (ar{d}_R \gamma_\mu T^A b_R)$	С
VedLR_1113	$(ar{e}_L \gamma^\mu e_L)(ar{d}_R \gamma_\mu b_R)$	C
VedLR_2213	$(ar{\mu}_L \gamma^\mu \mu_L) (\underline{d}_R \gamma_\mu b_R)$	С
VedLR_3313	$(ar au_L\gamma^\mu au_L)(d_R\gamma_\mu b_R)$	C
VdeLR_1311	$(ar{d}_L\gamma^\mu b_L)(ar{e}_R\gamma_\mu e_R)$	C
VdeLR_1322	$(ar{d}_L\gamma^\mu b_L)(ar{\mu}_R\gamma_\mu\mu_R)$	C
VdeLR_1333	$(ar{d}_L \gamma^\mu b_L)(ar{ au}_R \gamma_\mu  au_R)$	C
V1udLR_1113	$(ar{u}_L \gamma^\mu u_L)(ar{d}_R \gamma_\mu b_R)$	C
V1udLR_2213	$(\bar{c}_L \gamma^\mu c_L)(d_R \gamma_\mu b_R)$	C
V8udLR_1113	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A b_R)$	C
V8udLR_2213	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{d}_R \gamma_\mu T^A b_R)$	C
V1duLR_1311	$(ar{d}_L\gamma^\mu b_L)(ar{u}_R\gamma_\mu u_R)$	C
V1duLR_1322	$(\bar{d}_L\gamma^\mu b_L)(\bar{c}_R\gamma_\mu c_R)$	C
V8duLR_1311	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A u_R)$	C
V8duLR_1322	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{c}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$

WC name	Operator	Туре
V1ddLR_1113	$(\bar{d}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu b_R)$	C
V1ddLR_1223	$(ar{d}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu b_R) \ (ar{d}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu b_R)$	$\overset{\circ}{\mathrm{C}}$
V1ddLR_1311	$(ar{d}_L\gamma^\mu b_L)(ar{d}_R\gamma_\mu d_R) \ (ar{d}_L\gamma^\mu b_L)(ar{d}_R\gamma_\mu d_R)$	$\overset{\circ}{\mathrm{C}}$
V1ddLR_1322	$(ar{d}_L\gamma^\mu b_L)(ar{s}_R\gamma_\mu s_R)$	$\overset{\circ}{\mathrm{C}}$
V1ddLR_1333	$(ar{d}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu b_R) \ (ar{d}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu b_R)$	$\overset{\circ}{\mathrm{C}}$
V1ddLR_2213	$(ar{s}_L\gamma^\mu s_L)(ar{d}_R\gamma_\mu b_R) \ (ar{s}_L\gamma^\mu s_L)(ar{d}_R\gamma_\mu b_R)$	$\overset{\circ}{\mathrm{C}}$
V1ddLR_2312	$egin{array}{l} (ar{s}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu s_R) \ \hline (ar{s}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu s_R) \end{array}$	$\overset{\circ}{\mathrm{C}}$
V1ddLR_3313	$(ar{b}_L\gamma^\mu b_L)(ar{d}_R\gamma_\mu b_R)$	$\overset{\circ}{\mathrm{C}}$
V8ddLR_1113	$(ar{d}_L\gamma^\mu T^A d_L)(ar{d}_R\gamma_\mu T^A b_R)$	$\overset{\circ}{\mathrm{C}}$
V8ddLR_1223	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$\overset{\circ}{\mathrm{C}}$
V8ddLR_1311	$(ar{d}_L\gamma^\mu T^A b_L)(ar{d}_R\gamma_\mu T^A d_R)$	$\dot{ ext{C}}$
V8ddLR_1322	$(\bar{d}_L\gamma^\mu T^A b_L)(\bar{s}_R\gamma_\mu T^A s_R)$	$\dot{\mathrm{C}}$
V8ddLR_1333	$(ar{d}_L\gamma^\mu T^A b_L)(ar{b}_R\gamma_\mu T^A b_R)$	Č
V8ddLR_2213	$(ar{s}_L\gamma^\mu T^A s_L)(ar{d}_R\gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V8ddLR_2312	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
V8ddLR_3313	$(ar{b}_L\gamma^\mu T^A b_L)(ar{d}_R\gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V1udduLR_1131	$(ar{u}_L\gamma^\mu d_L)(ar{b}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
V1udduLR_1311	$(\bar{u}_L\gamma^\mu b_L)(\bar{d}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
V1udduLR 2132	$(ar{c}_L\gamma^\mu d_L)(ar{b}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
V1udduLR_2312	$(ar{c}_L\gamma^\mu b_L)(ar{d}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
V8udduLR_1131	$(ar{u}_L\gamma^\mu T^A d_L)(ar{b}_R\gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_1311	$(ar{u}_L\gamma^\mu T^A b_L)(ar{d}_R\gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_2132	$(ar{c}_L\gamma^\mu T^A d_L)(ar{b}_R\gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
V8udduLR_2312	$(ar{c}_L\gamma^\mu T^A b_L)(ar{d}_R\gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
SedRL_1113	$(ar{e}_L e_R)(ar{d}_R b_L)$	$^{\mathrm{C}}$
SedRL_1131	$(ar{e}_L e_R)(ar{b}_R d_L)$	$\mathbf{C}$
SedRL_2213	$(ar{\mu}_L\mu_R)(ar{d}_Rb_L)$	$\mathbf{C}$
SedRL_2231	$(ar{\mu}_L\mu_R)(ar{b}_Rd_L)$	$\mathbf{C}$
SedRL_3313	$(ar{ au}_L au_R)(ar{d}_Rb_L)$	$\mathbf{C}$
SedRL_3331	$(ar{ au}_L au_R)(ar{b}_Rd_L)$	$\mathbf{C}$
SedRR_1113	$(ar{e}_L e_R)(ar{d}_L b_R)$	$\mathbf{C}$
SedRR_1131	$(ar{e}_L e_R)(ar{b}_L d_R)$	$\mathbf{C}$
SedRR_2213	$(ar{\mu}_L\mu_R)(ar{d}_Lb_R)$	$\mathbf{C}$
SedRR_2231	$(ar{\mu}_L\mu_R)(ar{b}_Ld_R)$	C
SedRR_3313	$(ar{ au}_L au_R)(ar{d}_Lb_R)$	$\mathbf{C}$
SedRR_3331	$(ar au_L au_R)(ar b_Ld_R)$	$^{\mathrm{C}}$
TedRR_1113	$(ar{e}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}b_R)$	C
TedRR_1131	$(ar{e}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
TedRR_2213	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{d}_L \sigma_{\mu  u} b_R)$	$^{\mathrm{C}}$
TedRR_2231	$(ar{\mu}_L \sigma^{\mu u} \mu_R) (ar{b}_L \sigma_{\mu u} d_R)$	$^{\mathrm{C}}$
TedRR_3313	$(ar{ au}_L \sigma^{\mu u}  au_R) (ar{d}_L \sigma_{\mu u} b_R)$	$^{\mathrm{C}}$
TedRR_3331	$(ar{ au}_L\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$

WC name	Operator	Type
S1udRR_1113	$(ar{u}_L u_R)(ar{d}_L b_R)$	C
S1udRR_1131	$(ar{u}_L u_R)(ar{b}_L d_R)$	$\mathbf{C}$
S1udRR_2213	$(ar{c}_L c_R) (ar{d}_L b_R)$	$^{\mathrm{C}}$
S1udRR_2231	$(ar{c}_L c_R) (ar{b}_L d_R)$	$^{\mathrm{C}}$
S8udRR_1113	$(\bar{u}_L T^A u_R)(\bar{d}_L T^A b_R)$	$^{\mathrm{C}}$
S8udRR_1131	$(\bar{u}_L T^A u_R)(\bar{b}_L T^A d_R)$	$\mathbf{C}$
S8udRR_2213	$(ar{c}_L T^A c_R) (ar{d}_L T^A b_R)$	$\mathbf{C}$
S8udRR_2231	$(ar{c}_L T^A c_R) (ar{b}_L T^A d_R)$	$\mathbf{C}$
S1ddRR_1113	$(ar{d}_L d_R)(ar{d}_L b_R)$	$\mathbf{C}$
S1ddRR_1131	$(ar{d}_L d_R)(ar{b}_L d_R)$	$\mathbf{C}$
S1ddRR_1223	$(ar{d}_L s_R)(ar{s}_L b_R)$	$^{\mathrm{C}}$
S1ddRR_1322	$(ar{d}_L b_R)(ar{s}_L s_R)$	$\mathbf{C}$
S1ddRR_1333	$(ar{d}_L b_R)(ar{b}_L b_R)$	$\mathbf{C}$
S1ddRR_2132	$(ar{s}_L d_R)(ar{b}_L s_R)$	$\mathbf{C}$
S1ddRR_2231	$(ar{s}_L s_R)(ar{b}_L d_R)$	C
S1ddRR_3133	$(ar{b}_L d_R)(ar{b}_L b_{ar{R}})$	$^{\mathrm{C}}$
S8ddRR_1113	$(ar{d}_L T^A d_R) (ar{d}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_1131	$(d_L T^A d_R)(b_L T^A d_R)$	$\mathbf{C}$
S8ddRR_1223	$(ar{d}_L T^A s_R) (ar{s}_L T^A b_R)$	$^{\mathrm{C}}$
S8ddRR_1322	$(ar{d}_L T^A b_R) (ar{s}_L T^A s_R)$	C
S8ddRR_1333	$(ar{d}_L T^A b_R) (ar{b}_L T^A b_R)$	C
S8ddRR_2132	$(ar{s}_L T^A d_R) (ar{b}_L T^A s_R)$	$^{\mathrm{C}}$
S8ddRR_2231	$(ar{s}_L T^A s_R) (ar{b}_L T^A d_R)$	$^{\mathrm{C}}$
S8ddRR_3133	$(ar{b}_L T^A d_{ar{R}}) (ar{b}_L T^A b_R)$	$^{\mathrm{C}}$
S1udduRR_1131	$(ar{u}_L d_R)(ar{b}_L u_R)$	C
S1udduRR_1311	$(ar{u}_L b_R)(ar{d}_L u_R)$	$\mathbf{C}$
S1udduRR_2132	$(ar{c}_L d_R)(ar{b}_L c_R)$	$\mathbf{C}$
S1udduRR_2312	$(ar{c}_L b_R)(ar{d}_L c_R)$	$\mathbf{C}$
S8udduRR_1131	$(\bar{u}_L T^A d_R)(\bar{b}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_1311	$(ar{u}_L T^A b_R) (ar{d}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_2132	$(ar{c}_L T^A d_R) (ar{b}_L T^A c_R)$	C
S8udduRR_2312	$(\bar{c}_L T^A b_R)(\bar{d}_L T^A c_R)$	С

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WC name	Operator	Type
dgamma_12	$\bar{d}_L \sigma^{\mu\nu} s_R F_{\mu\nu}$	$\overline{C}$
dgamma_21	$ar{s}_L \sigma^{\mu u} d_R  F_{\mu u}$	$\mathbf{C}$
dG_12	$ar{d}_L \sigma^{\mu u} T^A s_R  G^A_{\mu u} \ ar{s}_L \sigma^{\mu u} T^A d_R  G^A_{\mu u}$	$\mathbf{C}$
dG_21	$ar{s}_L \sigma^{\mu u} T^A d_R  G^{\widehat{A}}_{\mu u}$	$\mathbf{C}$
VedLL 1112	$(ar{e}_L \gamma^\mu e_L) (ar{d}_L \gamma_\mu s_L)$	$\mathbf{C}$

WC name	Operator	Type
VedLL_2212	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu s_L)$	С
VedLL_3312	$(ar{ au}_L\gamma^\mu au_L)(ar{d}_L\gamma_\mu s_L)$	$\mathbf{C}$
VddLL_1112	$(ar{d}_L\gamma^\mu d_L)(ar{d}_L\gamma_\mu s_L)$	$\mathbf{C}$
VddLL_1222	$(ar{d}_L\gamma^\mu s_L)(ar{s}_L\gamma_\mu s_L)$	$\mathbf{C}$
VddLL_1233	$(ar{d}_L\gamma^\mu s_L)(ar{b}_L\gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_1332	$(ar{d}_L\gamma^\mu b_L)(ar{b}_L\gamma_\mu s_L)$	$\mathbf{C}$
V1udLL_1112	$(ar{u}_L \gamma^\mu u_L) (ar{d}_L \gamma_\mu s_L)$	$\mathbf{C}$
V1udLL_2212	$(ar{c}_L \gamma^\mu c_L) (ar{d}_L \gamma_\mu s_L)$	$\mathbf{C}$
V8udLL_1112	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_L \gamma_\mu T^A s_L)$	$\mathbf{C}$
V8udLL_2212	$(ar{c}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A s_L)$	$\mathbf{C}$
VedRR_1112	$(ar{e}_R \gamma^\mu e_R) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedRR_2212	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedRR_3312	$(ar{ au}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VddRR_1112	$(ar{d}_R\gamma^\mu d_R)(ar{d}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
VddRR_1222	$(ar{d}_R \gamma^\mu s_R) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VddRR_1233	$(ar{d}_R \gamma^\mu s_R) (ar{b}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VddRR_1332	$(ar{d}_R \gamma^\mu b_R) (ar{b}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1udRR_1112	$(ar{u}_R \gamma^\mu u_R) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1udRR_2212	$(ar{c}_R \gamma^\mu c_R) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V8udRR_1112	$(ar{u}_R \gamma^\mu T^A u_R) (ar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V8udRR_2212	$(ar{c}_R \gamma^\mu T^A c_R) (ar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
VedLR_1112	$(ar{e}_L \gamma^\mu e_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_2212	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_3312	$(ar au_L\gamma^\mu au_L)(ar d_R\gamma_\mu s_R)$	$\mathbf{C}$
VdeLR_1211	$(ar{d}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu e_R)$	$\mathbf{C}$
VdeLR_1222	$(ar{d}_L \gamma^\mu s_L) (ar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VdeLR_1233	$(ar{d}_L \gamma^\mu s_L) (ar{ au}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
V1udLR_1112	$(ar{u}_L \gamma^\mu u_L) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1udLR_2212	$(ar{c}_L \gamma^\mu c_L) (d_R \gamma_\mu s_R)$	$\mathbf{C}$
V8udLR_1112	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
V8udLR_2212	$(ar{c}_L \gamma^\mu T^A c_L) (d_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
V1duLR_1211	$(ar{d}_L \gamma^\mu s_L) (ar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
V1duLR_1222	$(ar{d}_L \gamma^\mu s_L) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
V8duLR_1211	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{u}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V8duLR_1222	$(ar{d}_L \gamma^\mu T^A s_L) (ar{c}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
V1ddLR_1112	$(\underline{d}_L \gamma^\mu d_L)(\underline{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1ddLR_1211	$(ar{d}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_1222	$(ar{d}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1ddLR_1233	$(ar{d}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1ddLR_1332	$(ar{d}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1ddLR_2212	$(ar{s}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1ddLR_2331	$(\bar{s}_L \gamma^\mu b_L)(\bar{b}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1ddLR_3312		C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_1112	$(\bar{d}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_1211	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A d_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_1222		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_1233	$(ar{d}_L \gamma^\mu T^A s_L) (ar{b}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_1332	$(ar{d}_L \gamma^\mu T^A b_L) (ar{b}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_2212	$(\bar{s}_L \gamma^\mu T^A s_L) (\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_2331	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A d_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8ddLR_3312	$(\bar{b}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udduLR_1121		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udduLR_1211		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udduLR_2122	$(ar{c}_L \gamma^\mu d_L) (ar{s}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udduLR_2212		$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udduLR_1121	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udduLR_1211	$(\bar{u}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udduLR_2122	$(\bar{c}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udduLR_2212	$(\bar{c}_L \gamma^\mu T^A s_L) (\bar{d}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_1112	$(ar{e}_L e_R)(ar{d}_R s_L)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_1121	$(ar{e}_L e_R)(ar{s}_R d_L)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_2212	$(ar{\mu}_L \mu_R)(ar{d}_R s_L)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_2221	$(ar{\mu}_L \mu_R) (ar{s}_R d_L)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_3312	$(ar{ au}_L au_R)(ar{d}_Rs_L)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_3321	$(ar{ au}_L au_R)(ar{s}_Rd_L)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRR_1112	$(ar{e}_L e_R)(ar{d}_L s_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRR_1121	$(ar{e}_L e_R)(ar{s}_{ar{L}} d_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRR_2212	$(ar{\mu}_L\mu_R)(ar{d}_Ls_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{s}_L \sigma_{\mu  u} d_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(\bar{ au}_L \sigma^{\mu u}  au_R) (d_L \sigma_{\mu u} s_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<del>-</del>		
S8udRR_1121 $(\bar{u}_L T^A u_R)(\bar{s}_L T^A d_R)$ C S8udRR_2212 $(\bar{c}_L T^A c_R)(\bar{d}_L T^A s_R)$ C	_	$(c_L c_R)(\bar{s}_L d_R)$	
S8udRR_2212 $(\bar{c}_L T^A c_R)(\bar{d}_L T^A s_R)$ C	_	$(u_L T^A u_R)(d_L T^A s_R)$	
	_		
SSUDRR_2221 $(c_L T^{\prime\prime} c_R)(s_L T^{\prime\prime} d_R)$ C	_		
	S8udRR_2221	$(c_L T^{\prime\prime} c_R)(s_L T^{\prime\prime} d_R)$	C

WC name	Operator	Type
S1ddRR_1112	$(ar{d}_L d_R)(ar{d}_L s_R)$	
S1ddRR_1121	$(ar{d}_L d_R)(ar{s}_L d_R)$	$\mathbf{C}$
S1ddRR_1222	$(ar{d}_L s_R)(ar{s}_L s_R)$	$\mathbf{C}$
S1ddRR_1233	$(ar{d}_L s_R)(ar{b}_L b_R)$	$\mathbf{C}$
S1ddRR_1332	$(ar{d}_L b_R)(ar{b}_L s_R)$	$\mathbf{C}$
S1ddRR_2122	$(ar{s}_L d_R)(ar{s}_L s_R)$	$\mathbf{C}$
S1ddRR_2133	$(ar{s}_L d_R)(ar{b}_L b_R)$	$\mathbf{C}$
S1ddRR_2331	$(ar{s}_L b_R)(ar{b}_L d_R)$	$^{\mathrm{C}}$
S8ddRR_1112	$(ar{d}_L T^A d_R) (ar{d}_L T^A s_R)$	$\mathbf{C}$
S8ddRR_1121	$(\bar{d}_L T^A d_R)(\bar{s}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_1222	$(ar{d}_L T^A s_R) (ar{s}_L T^A s_R)$	$\mathbf{C}$
S8ddRR_1233	$(ar{d}_L T^A s_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_1332	$(\bar{d}_L T^A b_R)(\bar{b}_L T^A s_R)$	$\mathbf{C}$
S8ddRR_2122	$(\bar{s}_L T^A d_R)(\bar{s}_L T^A s_R)$	С
S8ddRR_2133	$(\bar{s}_L T^A d_R)(\bar{b}_L T^A b_R)$	$^{\mathrm{C}}$
S8ddRR_2331	$(\bar{s}_L T^A b_R)(\bar{b}_L T^A d_R)$	$^{\mathrm{C}}$
S1udduRR_1121	$(ar{u}_L d_R)(ar{s}_L u_R)$	С
S1udduRR_1211	$(ar{u}_L s_R)(ar{d}_L u_R)$	С
S1udduRR_2122	$(ar{c}_L d_R)(ar{s}_L c_R)$	С
S1udduRR_2212	$(ar{c}_L s_R)(d_L c_R)$	С
S8udduRR_1121	$(ar{u}_L T^A d_R) (ar{s}_L T^A u_R)$	С
S8udduRR_1211	$(\bar{u}_L T^A s_R)(\bar{d}_L T^A u_R)$	С
S8udduRR_2122	$(\bar{c}_L T^A d_R)(\bar{s}_L T^A c_R)$	$^{\mathrm{C}}$
S8udduRR_2212	$(ar{c}_L T^A s_R) (ar{d}_L T^A c_R)$	$^{\mathrm{C}}$

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WC name	Operator	Type
ugamma_12	$\bar{u}_L \sigma^{\mu \nu} c_R F_{\mu \nu}$	С
ugamma_21	$ar{c}_L \sigma^{\mu  u} u_R  F_{\mu  u}$	$^{\mathrm{C}}$
uG_12	$ar{u}_L \sigma^{\mu u} T^A c_R  G^A_{\mu u}$	$^{\mathrm{C}}$
uG_21	$ar{c}_L \sigma^{\mu u} T^A u_R  G^A_{\mu u}$	$^{\mathrm{C}}$
VeuLL_1112	$(ar{e}_L \gamma^\mu e_L) (ar{u}_L \gamma^\prime_\mu c_L)$	$^{\mathrm{C}}$
VeuLL_2212	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{u}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
VeuLL_3312	$(ar{ au}_L \gamma^\mu  au_L) (ar{u}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
VuuLL_1112	$(ar{u}_L\gamma^\mu u_L)(ar{u}_L\dot{\gamma}_\mu c_L)$	$^{\mathrm{C}}$
VuuLL_1222	$(ar{u}_L \gamma^\mu c_L) (ar{c}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
V1udLL_1211	$(ar{u}_L \gamma^\mu c_L) (ar{d}_L \gamma_\mu d_L)$	$^{\mathrm{C}}$
V1udLL_1222	$(ar{u}_L \gamma^\mu c_L) (ar{s}_L \gamma_\mu s_L)$	$^{\mathrm{C}}$
V1udLL_1233	$(ar{u}_L \gamma^\mu c_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{C}$
V8udLL_1211	$(ar{u}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A d_L)$	$^{\mathrm{C}}$

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{ccc} \text{VeuLR\_3312} & (\bar{\tau}_L \gamma^\mu \tau_L) (\bar{u}_R \gamma_\mu c_R) & \text{C} \\ \text{VueLR\_1211} & (\bar{u}_L \gamma^\mu c_L) (\bar{e}_R \gamma_\mu e_R) & \text{C} \\ \text{VueLR\_1222} & (\bar{u}_L \gamma^\mu c_L) (\bar{\mu}_R \gamma_\mu \mu_R) & \text{C} \\ \end{array}$
VueLR_1222 $(\bar{u}_L \gamma^\mu c_L)(\bar{\mu}_R \gamma_\mu \mu_R)$ C
= ( 2 / 10 / 10 / 10 /
VueLR_1233 $(\bar{u}_L \gamma^\mu c_L)(\bar{\tau}_R \gamma_\mu \tau_R)$ C
V1uuLR_1112 $(\bar{u}_L \gamma^\mu u_L)(\bar{u}_R \gamma_\mu c_R)$ C
V1uuLR_1211 $(\bar{u}_L \gamma^{\mu} c_L)(\bar{u}_R \gamma_{\mu} u_R)$ C
V1uuLR_1222 $(\bar{u}_L \gamma^{\mu} c_L)(\bar{c}_R \gamma_{\mu} c_R)$ C
V1uuLR_2212 $(\bar{c}_L \gamma^{\mu} c_L)(\bar{u}_R \gamma_{\mu} c_R)$ C
V8uuLR_1112 $(\bar{u}_L \gamma^{\mu} T^A u_L)(\bar{u}_R \gamma_{\mu} T^A c_R)$ C
V8uuLR_1211 $(\bar{u}_L \gamma^{\mu} T^A c_L)(\bar{u}_R \gamma_{\mu} T^A u_R)$ C
V8uuLR_1222 $(\bar{u}_L \gamma^{\mu} T^A c_L)(\bar{c}_R \gamma_{\mu} T^A c_R)$ C
V8uuLR_2212 $(\bar{c}_L \gamma^{\mu} T^A c_L)(\bar{u}_R \gamma_{\mu} T^A c_R)$ C
V1udLR_1211 $(\bar{u}_L \gamma^{\mu} c_L)(\bar{d}_R \gamma_{\mu} d_R)$ C
V1udLR_1222 $(\bar{u}_L \gamma^{\mu} c_L)(\bar{s}_R \gamma_{\mu} s_R)$ C
V1udLR_1233 $(\bar{u}_L \gamma^{\mu} c_L)(\bar{b}_R \gamma_{\mu} b_R)$ C
V8udLR_1211 $(\bar{u}_L \gamma^{\mu} T^A c_L) (\bar{d}_R \gamma_{\mu} T^A d_R)$ C
V8udLR_1222 $(\bar{u}_L \gamma^{\mu} T^A c_L)(\bar{s}_R \gamma_{\mu} T^A s_R)$ C
V8udLR_1233 $(\bar{u}_L \gamma^{\mu} T^A c_L)(\bar{b}_R \gamma_{\mu} T^A b_R)$ C
V1duLR_1112 $(\bar{d}_L \gamma^\mu d_L)(\bar{u}_R \gamma_\mu c_R)$ C
V1duLR_2212 $(\bar{s}_L \gamma^{\mu} s_L)(\bar{u}_R \gamma_{\mu} c_R)$ C
V1duLR_3312 $(\bar{b}_L \gamma^{\mu} b_L)(\bar{u}_R \gamma_{\mu} c_R)$ C
V8duLR_1112 $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{u}_R \gamma_\mu T^A c_R)$ C
V8duLR_2212 $(\bar{s}_L \gamma^\mu T^A s_L)(\bar{u}_R \gamma_\mu T^A c_R)$ C
V8duLR_3312 $(\bar{b}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A c_R)$ C
V1udduLR_1112 $(\bar{u}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu c_R)$ C
V1udduLR_1222 $(\bar{u}_L\gamma^{\mu}s_L)(\bar{s}_R\gamma_{\mu}c_R)$ C
V1udduLR_1332 $(\bar{u}_L \gamma^{\mu} b_L)(\bar{b}_R \gamma_{\mu} c_R)$ C
V1udduLR_2111 $(\bar{c}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu u_R)$ C

WC name	Operator	Туре
V1udduLR_2221	$(\bar{c}_L \gamma^\mu s_L)(\bar{s}_R \gamma_\mu u_R)$	C
V1udduLR_2331	$(ar{c}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu u_R)$	$\mathbf{C}$
V8udduLR_1112	$(\bar{u}_L \gamma^\mu T^A d_L) (\bar{d}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_1222	$(\bar{u}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_1332	$(\bar{u}_L \gamma^\mu T^A b_L) (\bar{b}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2111	$(\bar{c}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V8udduLR_2221	$(\bar{c}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V8udduLR_2331	$(\bar{c}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
SeuRL_1112	$(ar{e}_L e_R)(ar{u}_R c_L)$	$\mathbf{C}$
SeuRL_1121	$(\bar{e}_L e_R)(\bar{c}_R u_L)$	$\mathbf{C}$
SeuRL_2212	$(ar{\mu}_L\mu_R)(ar{u}_Rc_L)$	$\mathbf{C}$
SeuRL_2221	$(ar{\mu}_L\mu_R)(ar{c}_Ru_L)$	$\mathbf{C}$
SeuRL_3312	$(ar{ au}_L au_R)(ar{u}_Rc_L)$	$\mathbf{C}$
SeuRL_3321	$(ar{ au}_L au_R)(ar{c}_Ru_L)$	$\mathbf{C}$
SeuRR_1112	$(ar{e}_L e_R)(ar{u}_L c_R)$	$^{\mathrm{C}}$
SeuRR_1121	$(ar{e}_L e_R)(ar{c}_L u_R)$	$^{\mathrm{C}}$
SeuRR_2212	$(ar{\mu}_L \mu_R)(ar{u}_L c_R)$	$^{\mathrm{C}}$
SeuRR_2221	$(ar{\mu}_L \mu_R)(ar{c}_L u_R)$	$^{\mathrm{C}}$
SeuRR_3312	$(ar{ au}_L au_R)(ar{u}_Lc_R)$	$^{\mathrm{C}}$
SeuRR_3321	$(ar{ au}_L au_R)(ar{c}_Lu_R)$	$^{\mathrm{C}}$
TeuRR_1112	$(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} c_R)$	$^{\mathrm{C}}$
TeuRR_1121	$(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{c}_L \sigma_{\mu\nu} u_R)$	$^{\mathrm{C}}$
TeuRR_2212	$(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} c_R)$	$\mathbf{C}$
TeuRR_2221	$(\bar{\mu}_L \sigma^{\mu  u} \mu_R) (\bar{c}_L \sigma_{\mu  u} u_R)$	$\mathbf{C}$
TeuRR_3312	$(ar{ au}_L \sigma^{\mu u}  au_R) (ar{u}_L \sigma_{\mu u} c_R)$	$\mathbf{C}$
TeuRR_3321	$(\bar{\tau}_L \sigma^{\mu\nu} \tau_R)(\bar{c}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
S1uuRR_1112	$(ar{u}_L u_R)(ar{u}_L c_R)$	$\mathbf{C}$
S1uuRR_1121	$(ar{u}_L u_R)(ar{c}_L u_R)$	$\mathbf{C}$
S1uuRR_1222	$(ar{u}_L c_R)(ar{c}_L c_R)$	$\mathbf{C}$
S1uuRR_2122	$(\bar{c}_L u_R)(\bar{c}_L c_R)$	$\mathbf{C}$
S8uuRR_1112	$(\bar{u}_L T^A u_R)(\bar{u}_L T^A c_R)$	$\mathbf{C}$
S8uuRR_1121	$(\bar{u}_L T^A u_R)(\bar{c}_L T^A u_R)$	C
S8uuRR_1222	$(\bar{u}_L T^A c_R)(\bar{c}_L T^A c_R)$	C
S8uuRR_2122	$(ar{c}_L T^A u_R)(ar{c}_L T^A c_R)$	C
S1udRR_1211	$(\bar{u}_L c_R)(d_L d_R)$	$\mathbf{C}$
S1udRR_1222	$(ar{u}_L c_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
S1udRR_1233	$(ar{u}_L c_R) (ar{b}_L b_R)$	$\mathbf{C}$
S1udRR_2111	$(\bar{c}_L u_R)(d_L d_R)$	$\mathbf{C}$
S1udRR_2122	$(ar{c}_L u_R)(ar{s}_L s_R)$	$\mathbf{C}$
S1udRR_2133	$(ar{c}_L u_R)(ar{b}_L b_R)$	$\mathbf{C}$
S8udRR_1211	$(\bar{u}_L T^A c_R)(\bar{d}_L T^A d_R)$	$\mathbf{C}$
S8udRR_1222	$(\bar{u}_L T^A c_R)(\bar{s}_L T^A s_R)$	$\mathbf{C}$
S8udRR_1233	$(\bar{u}_L T^A c_R)(\bar{b}_L T^A b_R)$	$\mathbf{C}$

WC name	Operator	Type
S8udRR_2111	$(\bar{c}_L T^A u_R)(\bar{d}_L T^A d_R)$	C
S8udRR_2122	$(\bar{c}_L T^A u_R)(\bar{s}_L T^A s_R)$	$^{\mathrm{C}}$
S8udRR_2133	$(\bar{c}_L T^A u_R)(\bar{b}_L T^A b_R)$	$\mathbf{C}$
S1udduRR_1112	$(ar{u}_L d_R)(ar{d}_L c_R)$	$^{\mathrm{C}}$
S1udduRR_1222	$(ar{u}_L s_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
S1udduRR_1332	$(ar{u}_L b_R)(ar{b}_L c_R)$	$^{\mathrm{C}}$
S1udduRR_2111	$(ar{c}_L d_R) (ar{d}_L u_R)$	$^{\mathrm{C}}$
S1udduRR_2221	$(ar{c}_L s_R)(ar{s}_L u_R)$	$^{\mathrm{C}}$
S1udduRR_2331	$(ar{c}_L b_R)(ar{b}_L u_R)$	$^{\mathrm{C}}$
S8udduRR_1112	$(\bar{u}_L T^A d_R)(\bar{d}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_1222	$(\bar{u}_L T^A s_R)(\bar{s}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_1332	$(\bar{u}_L T^A b_R)(\bar{b}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2111	$(\bar{c}_L T^A d_R)(\bar{d}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_2221	$(\bar{c}_L T^A s_R)(\bar{s}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_2331	$(\bar{c}_L T^A b_R)(\bar{b}_L T^A u_R)$	$\mathbf{C}$

### sbemu

WC name	Operator	Type
VedLL_1223	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_L \gamma_\mu b_L)$	$\mathbf{C}$
VedRR_1223	$(ar{e}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu b_R)$	C
VedLR_1223	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VdeLR_2312	$(ar{s}_L \gamma^\mu b_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
SedRL_1223	$(ar{e}_L\mu_R)(ar{s}_Rb_L)$	$\mathbf{C}$
SedRL_2132	$(ar{\mu}_L e_R)(ar{b}_R s_L)$	С
SedRR_1223	$(ar{e}_L\mu_R)(ar{s}_Lb_R)$	С
SedRR_2132	$(ar{\mu}_L e_R)(ar{b}_L s_R)$	$\mathbf{C}$
TedRR_1223	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}b_R)$	C
TedRR_2132	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{b}_L \sigma_{\mu  u} s_R)$	$\mathbf{C}$

#### sbmue

WC name	Operator	Type
VedLL_1232	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{b}_L \gamma_\mu s_L)$	С
VedRR_1232	$(ar{e}_R\gamma^\mu\mu_R)(ar{b}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
VedLR_1232	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VdeLR_2321	$(ar{s}_L \gamma^\mu b_L) (ar{\mu}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
SedRL_1232	$(ar{e}_L\mu_R)(ar{b}_Rs_L)$	$^{\mathrm{C}}$
SedRL_2123	$(ar{\mu}_L e_R)(ar{s}_R b_L)$	$^{\mathrm{C}}$
SedRR_1232	$(ar{e}_L \mu_R) (ar{b}_L s_R)$	$\mathbf{C}$

WC name	Operator	Type
SedRR_2123	$(ar{\mu}_L e_R)(ar{s}_L b_R)$	C
TedRR_1232	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}s_R)$	C
TedRR_2123	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} b_R)$	$\mathbf{C}$

#### sbetau

WC name	Operator	Type
VedLL_1323	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu b_L)$	C
VedRR_1323	$(ar{e}_R \gamma^\mu  au_R) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedLR_1323	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VdeLR_2313	$(ar{s}_L \gamma^\mu b_L) (ar{e}_R \gamma_\mu  au_R)$	$\mathbf{C}$
SedRL_1323	$(ar{e}_L au_R)(ar{s}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3132	$(ar{ au}_L e_R)(ar{b}_R s_L)$	$^{\mathrm{C}}$
SedRR_1323	$(ar{e}_L au_R)(ar{s}_Lb_R)$	$\mathbf{C}$
SedRR_3132	$(ar{ au}_L e_R)(ar{b}_L s_R)$	$^{\mathrm{C}}$
TedRR_1323	$(ar{e}_L\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}b_R)$	$^{\mathrm{C}}$
TedRR_3132	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$

#### sbtaue

WC name	Operator	Type
VedLL_1332	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_L \gamma_\mu s_L)$	$\overline{C}$
VedRR_1332	$(ar{e}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_1332	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
VdeLR_2331	$(ar{s}_L \gamma^\mu b_L)(ar{ au}_R \gamma_\mu e_R)$	$\mathbf{C}$
SedRL_1332	$(ar{e}_L au_R)(ar{b}_Rs_L)$	$^{\mathrm{C}}$
SedRL_3123	$(ar{ au}_L e_R)(ar{s}_R b_L)$	$\mathbf{C}$
SedRR_1332	$(ar{e}_L au_R)(ar{b}_Ls_R)$	$\mathbf{C}$
SedRR_3123	$(ar{ au}_L e_R)(ar{s}_L b_R)$	$\mathbf{C}$
TedRR_1332	$(ar{e}_L\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
TedRR_3123	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}b_R)$	С

## sbmutau

WC name	Operator	Type
VedLL_2323	$(ar{\mu}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu b_L)$	C
VedRR_2323	$(ar{\mu}_R \gamma^\mu  au_R) (ar{s}_R \gamma_\mu b_R)$	C
VedLR_2323	$(ar{\mu}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu b_R)$	C

WC name	Operator	Type
VdeLR_2323	$(\bar{s}_L \gamma^\mu b_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	C
SedRL_2323	$(ar{\mu}_L au_R)(ar{s}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3232	$(ar{ au}_L\mu_R)(ar{b}_Rs_L)$	$^{\mathrm{C}}$
SedRR_2323	$(ar{\mu}_L au_R)(ar{s}_Lb_R)$	$^{\mathrm{C}}$
SedRR_3232	$(ar{ au}_L \mu_R)(ar{b}_L s_R)$	$\mathbf{C}$
TedRR_2323	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{s}_L \sigma_{\mu  u} b_R)$	$^{\mathrm{C}}$
TedRR_3232	$(\bar{ au}_L \sigma^{\mu u} \mu_R) (\bar{b}_L \sigma_{\mu u} s_R)$	С

## sbtaumu

WC name	Operator	Type
VedLL_2332	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{b}_L \gamma_\mu s_L)$	$\overline{C}$
VedRR_2332	$(ar{\mu}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VedLR_2332	$(ar{\mu}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
VdeLR_2332	$(\bar{s}_L \gamma^\mu b_L)(\bar{ au}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
SedRL_2332	$(ar{\mu}_L au_R)(ar{b}_Rs_L)$	$^{\mathrm{C}}$
SedRL_3223	$(ar{ au}_L\mu_R)(ar{s}_Rb_L)$	$\mathbf{C}$
SedRR_2332	$(ar{\mu}_L au_R)(ar{b}_Ls_R)$	$^{\mathrm{C}}$
SedRR_3223	$(ar{ au}_L\mu_R)(ar{s}_Lb_R)$	$\mathbf{C}$
TedRR_2332	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{b}_L \sigma_{\mu  u} s_R)$	$^{\mathrm{C}}$
TedRR_3223	$(\bar{ au}_L \sigma^{\mu u} \mu_R) (\bar{s}_L \sigma_{\mu u} b_R)$	C

# dbemu

WC name	Operator	Type
VedLL_1213	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu b_L)$	$\mathbf{C}$
VedRR_1213	$(ar{e}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedLR_1213	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
VdeLR_1312	$(ar{d}_L\gamma^\mu b_L)(ar{e}_R\gamma_\mu\mu_R)$	$\mathbf{C}$
SedRL_1213	$(ar{e}_L \mu_R) (ar{d}_R b_L)$	$\mathbf{C}$
SedRL_2131	$(ar{\mu}_L e_R)(ar{b}_R d_L)$	$\mathbf{C}$
SedRR_1213	$(ar{e}_L\mu_R)(ar{d}_Lb_R)$	$\mathbf{C}$
SedRR_2131	$(ar{\mu}_L e_R)(ar{b}_L d_R)$	$\mathbf{C}$
TedRR_1213	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}b_R)$	$\mathbf{C}$
TedRR_2131	$(ar{\mu}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$

## dbmue

WC name	Operator	Type
VedLL_1231	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_L \gamma_\mu d_L)$	C
VedRR_1231	$(ar{e}_R\gamma^\mu\mu_R)(ar{b}_R\gamma_\mu d_R)$	$\mathbf{C}$
VedLR_1231	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VdeLR_1321	$(ar{d}_L \gamma^\mu b_L) (ar{\mu}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
SedRL_1231	$(ar{e}_L\mu_R)(ar{b}_Rd_L)$	$^{\mathrm{C}}$
SedRL_2113	$(ar{\mu}_L e_R)(ar{d}_R b_L)$	$^{\mathrm{C}}$
SedRR_1231	$(ar{e}_L\mu_R)(ar{b}_Ld_R)$	$^{\mathrm{C}}$
SedRR_2113	$(ar{\mu}_L e_R)(ar{d}_L b_R)$	$^{\mathrm{C}}$
TedRR_1231	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
TedRR_2113	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} b_R)$	$^{\mathrm{C}}$

## dbetau

WC name	Operator	Type
VedLL_1313	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu b_L)$	C
VedRR_1313	$(ar{e}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedLR_1313	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VdeLR_1313	$(ar{d}_L\gamma^\mu b_L)(ar{e}_R\gamma_\mu au_R)$	$^{\mathrm{C}}$
SedRL_1313	$(ar{e}_L au_R)(ar{d}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3131	$(ar{ au}_L e_R)(ar{b}_R d_L)$	$^{\mathrm{C}}$
SedRR_1313	$(ar{e}_L au_R)(ar{d}_Lb_R)$	$^{\mathrm{C}}$
SedRR_3131	$(ar{ au}_L e_R)(ar{b}_L d_R)$	$^{\mathrm{C}}$
TedRR_1313	$(ar{e}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}b_R)$	$^{\mathrm{C}}$
TedRR_3131	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}d_R)$	С

### dbtaue

WC name	Operator	Type
VedLL_1331	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_L \gamma_\mu d_L)$	C
VedRR_1331	$(ar{e}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VedLR_1331	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VdeLR_1331	$(ar{d}_L \gamma^\mu b_L)(ar{ au}_R \gamma_\mu e_R)$	$\mathbf{C}$
SedRL_1331	$(ar{e}_L au_R)(ar{b}_Rd_L)$	$^{\mathrm{C}}$
SedRL_3113	$(ar{ au}_L e_R)(ar{d}_R b_L)$	$^{\mathrm{C}}$
SedRR_1331	$(ar{e}_L au_R)(ar{b}_Ld_R)$	$^{\mathrm{C}}$
SedRR_3113	$(ar{ au}_L e_R)(ar{d}_L b_R)$	$^{\mathrm{C}}$
TedRR_1331	$(ar{e}_L\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
TedRR_3113	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}b_R)$	C

## ${\tt dbmutau}$

WC name	Operator	Type
VedLL_2313	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{d}_L \gamma_\mu b_L)$	C
VedRR_2313	$(ar{\mu}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedLR_2313	$(ar{\mu}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VdeLR_1323	$(ar{d}_L \gamma^\mu b_L) (ar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
SedRL_2313	$(ar{\mu}_L au_R)(ar{d}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3231	$(ar{ au}_L \mu_R) (ar{b}_R d_L)$	$^{\mathrm{C}}$
SedRR_2313	$(ar{\mu}_L au_R)(ar{d}_Lb_R)$	$^{\mathrm{C}}$
SedRR_3231	$(ar au_L\mu_R)(ar b_Ld_R)$	$^{\mathrm{C}}$
TedRR_2313	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{d}_L \sigma_{\mu  u} b_R)$	$^{\mathrm{C}}$
TedRR_3231	$(ar au_L\sigma^{\mu u}\mu_R)(ar b_L\sigma_{\mu u}d_R)$	С

## ${\tt dbtaumu}$

WC name	Operator	Type
VedLL_2331	$(ar{\mu}_L \gamma^\mu  au_L) (ar{b}_L \gamma_\mu d_L)$	С
VedRR_2331	$(\bar{\mu}_R \gamma^\mu  au_R)(\bar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedLR_2331	$(ar{\mu}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
VdeLR_1332	$(ar{d}_L \gamma^\mu b_L)(ar{ au}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
SedRL_2331	$(ar{\mu}_L au_R)(ar{b}_Rd_L)$	$\mathbf{C}$
SedRL_3213	$(ar{ au}_L \mu_R)(ar{d}_R b_L)$	$\mathbf{C}$
SedRR_2331	$(ar{\mu}_L au_R)(ar{b}_Ld_R)$	$\mathbf{C}$
SedRR_3213	$(ar{ au}_L\mu_R)(ar{d}_Lb_R)$	$\mathbf{C}$
TedRR_2331	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{b}_L \sigma_{\mu  u} d_R)$	$\mathbf{C}$
TedRR_3213	$(ar{ au}_L \sigma^{\mu u} \mu_R) (ar{d}_L \sigma_{\mu u} b_R)$	С

## sdemu

WC name	Operator	Type
VedLL_1221	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_L \gamma_\mu d_L)$	C
VedRR_1221	$(ar{e}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedLR_1221	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu d_R)$	С
VdeLR_1221	$(ar{d}_L \gamma^\mu s_L) (ar{\mu}_R \gamma_\mu e_R)$	С
SedRL_1221	$(ar{e}_L \mu_R)(ar{s}_R d_L)$	$\mathbf{C}$
SedRL_2112	$(ar{\mu}_L e_R)(ar{d}_R s_L)$	$\mathbf{C}$
SedRR_1221	$(ar{e}_L\mu_R)(ar{s}_Ld_R)$	$\mathbf{C}$
SedRR_2112	$(ar{\mu}_L e_R)(ar{d}_L s_R)$	$\mathbf{C}$
TedRR_1221	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$

WC name	Operator	Type
TedRR_2112	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} s_R)$	С

### sdmue

WC name	Operator	Type
VedLL_1212	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu s_L)$	$\mathbf{C}$
VedRR_1212	$(ar{e}_R\gamma^\mu\mu_R)(ar{d}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
VedLR_1212	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VdeLR_1212	$(ar{d}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
SedRL_1212	$(ar{e}_L\mu_R)(ar{d}_Rs_L)$	C
SedRL_2121	$(ar{\mu}_L e_R)(ar{s}_R d_L)$	$^{\mathrm{C}}$
SedRR_1212	$(ar{e}_L\mu_R)(ar{d}_Ls_R)$	$^{\mathrm{C}}$
SedRR_2121	$(ar{\mu}_L e_R)(ar{s}_L d_R)$	$\mathbf{C}$
TedRR_1212	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
TedRR_2121	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} d_R)$	$^{\mathrm{C}}$

### sdetau

WC name	Operator	Type
VedLL_1321	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu d_L)$	$\overline{C}$
VedRR_1321	$(ar{e}_R \gamma^\mu  au_R) (ar{s}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedLR_1321	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu d_R)$	C
VdeLR_1231	$(ar{d}_L \gamma^\mu s_L) (ar{ au}_R \gamma_\mu e_R)$	C
SedRL_1321	$(ar{e}_L au_R)(ar{s}_Rd_L)$	$^{\mathrm{C}}$
SedRL_3112	$(ar{ au}_L e_R)(ar{d}_R s_L)$	$\mathbf{C}$
SedRR_1321	$(ar{e}_L au_R)(ar{s}_Ld_R)$	C
SedRR_3112	$(ar{ au}_L e_R)(ar{d}_L s_R)$	$\mathbf{C}$
TedRR_1321	$(ar{e}_L\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}d_R)$	C
TedRR_3112	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}s_R)$	C

### sdtaue

WC name	Operator	Type
VedLL_1312	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu s_L)$	C
VedRR_1312	$(ar{e}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu s_R)$	C
VedLR_1312	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu s_R)$	C
VdeLR_1213	$(ar{d}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu  au_R)$	C
SedRL_1312	$(ar{e}_L au_R)(ar{d}_Rs_L)$	$\mathbf{C}$

WC name	Operator	Type
SedRL_3121	$(ar{ au}_L e_R)(ar{s}_R d_L)$	C
SedRR_1312	$(ar{e}_L au_R)(ar{d}_Ls_R)$	$\mathbf{C}$
SedRR_3121	$(ar{ au}_L e_R)(ar{s}_L d_R)$	$^{\mathrm{C}}$
TedRR_1312	$(ar{e}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
TedRR_3121	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$

### ${\tt sdmutau}$

WC name	Operator	Type
VedLL_2321	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{s}_L \gamma_\mu d_L)$	$\overline{C}$
VedRR_2321	$(\bar{\mu}_R \gamma^\mu  au_R)(\bar{s}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VedLR_2321	$(ar{\mu}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VdeLR_1232	$(ar{d}_L\gamma^\mu s_L)(ar{ au}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
SedRL_2321	$(ar{\mu}_L au_R)(ar{s}_Rd_L)$	$^{\mathrm{C}}$
SedRL_3212	$(ar au_L\mu_R)(ar d_Rs_L)$	$^{\mathrm{C}}$
SedRR_2321	$(ar{\mu}_L au_R)(ar{s}_Ld_R)$	$^{\mathrm{C}}$
SedRR_3212	$(ar au_L\mu_R)(ar d_Ls_R)$	$^{\mathrm{C}}$
TedRR_2321	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{s}_L \sigma_{\mu  u} d_R)$	C
TedRR_3212	$(ar{ au}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$

# ${\tt sdtaumu}$

WC name	Operator	Type
VedLL_2312	$(ar{\mu}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu s_L)$	C
VedRR_2312	$(ar{\mu}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_2312	$(ar{\mu}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VdeLR_1223	$(ar{d}_L \gamma^\mu s_L) (ar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
SedRL_2312	$(ar{\mu}_L au_R)(ar{d}_Rs_L)$	$^{\mathrm{C}}$
SedRL_3221	$(ar{ au}_L\mu_R)(ar{s}_Rd_L)$	$^{\mathrm{C}}$
SedRR_2312	$(ar{\mu}_L au_R)(ar{d}_Ls_R)$	$^{\mathrm{C}}$
SedRR_3221	$(ar{ au}_L\mu_R)(ar{s}_Ld_R)$	$\mathbf{C}$
TedRR_2312	$(ar{\mu}_L \sigma^{\mu u}  au_R) (ar{d}_L \sigma_{\mu u} s_R)$	$\mathbf{C}$
TedRR_3221	$(\bar{ au}_L \sigma^{\mu u} \mu_R) (\bar{s}_L \sigma_{\mu u} d_R)$	$\mathbf{C}$

#### cuemu

WC name	Operator	Type
VeuLL_1221	$(ar{e}_L \gamma^\mu \mu_L) (ar{c}_L \gamma_\mu u_L)$	С

WC name	Operator	Type
VeuRR_1221	$(ar{e}_R \gamma^\mu \mu_R) (ar{c}_R \gamma_\mu u_R)$	C
VeuLR_1221	$(ar{e}_L \gamma^\mu \mu_L) (ar{c}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
VueLR_1221	$(\bar{u}_L \gamma^\mu c_L)(\bar{\mu}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
SeuRL_1221	$(ar{e}_L\mu_R)(ar{c}_Ru_L)$	$^{\mathrm{C}}$
SeuRL_2112	$(ar{\mu}_L e_R)(ar{u}_R c_L)$	$^{\mathrm{C}}$
SeuRR_1221	$(ar{e}_L\mu_R)(ar{c}_Lu_R)$	$^{\mathrm{C}}$
SeuRR_2112	$(ar{\mu}_L e_R)(ar{u}_L c_R)$	$^{\mathrm{C}}$
TeuRR_1221	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{c}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
TeuRR_2112	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} c_R)$	$^{\mathrm{C}}$

#### cumue

WC name	Operator	Type
VeuLL_1212	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_L \gamma_\mu c_L)$	$^{\rm C}$
VeuRR_1212	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{u}_R \gamma_\mu c_R)$	$\mathbf{C}$
VeuLR_1212	$(ar{e}_L \gamma^\mu \mu_L) (ar{u}_R \gamma_\mu c_R)$	C
VueLR_1212	$(\bar{u}_L\gamma^\mu c_L)(\bar{e}_R\gamma_\mu\mu_R)$	C
SeuRL_1212	$(ar{e}_L\mu_R)(ar{u}_Rc_L)$	C
SeuRL_2121	$(ar{\mu}_L e_R)(ar{c}_R u_L)$	$\mathbf{C}$
SeuRR_1212	$(ar{e}_L\mu_R)(ar{u}_Lc_R)$	$^{\mathrm{C}}$
SeuRR_2121	$(ar{\mu}_L e_R)(ar{c}_L u_R)$	$\mathbf{C}$
TeuRR_1212	$(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} c_R)$	$^{\mathrm{C}}$
TeuRR_2121	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{c}_L \sigma_{\mu\nu} u_R)$	$^{\mathrm{C}}$

## cuetau

WC name	Operator	Type
VeuLL_1321	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{c}_L \gamma_\mu u_L)$	
VeuRR_1321	$(ar{e}_R \gamma^\mu  au_R) (ar{c}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
VeuLR_1321	$(ar{e}_L \gamma^\mu  au_L) (ar{c}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
VueLR_1231	$(\bar{u}_L \gamma^\mu c_L)(\bar{ au}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
SeuRL_1321	$(ar{e}_L au_R)(ar{c}_Ru_L)$	$^{\mathrm{C}}$
SeuRL_3112	$(ar{ au}_L e_R)(ar{u}_R c_L)$	$\mathbf{C}$
SeuRR_1321	$(ar{e}_L au_R)(ar{c}_Lu_R)$	$^{\mathrm{C}}$
SeuRR_3112	$(ar{ au}_L e_R)(ar{u}_L c_R)$	$^{\mathrm{C}}$
TeuRR_1321	$(ar{e}_L\sigma^{\mu u} au_R)(ar{c}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
TeuRR_3112	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{u}_L\sigma_{\mu u}c_R)$	С

## cutaue

WC name	Operator	Type
VeuLL_1312	$(\bar{e}_L \gamma^\mu  au_L)(\bar{u}_L \gamma_\mu c_L)$	C
VeuRR_1312	$(\bar{e}_R \gamma^\mu  au_R)(\bar{u}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
VeuLR_1312	$(ar{e}_L \gamma^\mu  au_L) (ar{u}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
VueLR_1213	$(ar{u}_L \gamma^\mu c_L) (ar{e}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
SeuRL_1312	$(ar{e}_L au_R)(ar{u}_Rc_L)$	$^{\mathrm{C}}$
SeuRL_3121	$(ar{ au}_L e_R)(ar{c}_R u_L)$	$^{\mathrm{C}}$
SeuRR_1312	$(ar{e}_L au_R)(ar{u}_Lc_R)$	$^{\mathrm{C}}$
SeuRR_3121	$(ar{ au}_L e_R)(ar{c}_L u_R)$	$^{\mathrm{C}}$
TeuRR_1312	$(\bar{e}_L \sigma^{\mu  u}  au_R) (\bar{u}_L \sigma_{\mu  u} c_R)$	$^{\mathrm{C}}$
TeuRR_3121	$(ar{ au}_L \sigma^{\mu u} e_R) (ar{c}_L \sigma_{\mu u} u_R)$	С

### cumutau

WC name	Operator	Type
VeuLL_2321	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{c}_L \gamma_\mu u_L)$	C
VeuRR_2321	$(\bar{\mu}_R \gamma^\mu  au_R)(\bar{c}_R \gamma_\mu u_R)$	$\mathbf{C}$
VeuLR_2321	$(ar{\mu}_L \gamma^\mu  au_L) (ar{c}_R \gamma_\mu u_R)$	$\mathbf{C}$
VueLR_1232	$(ar{u}_L \gamma^\mu c_L) (ar{ au}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
SeuRL_2321	$(ar{\mu}_L au_R)(ar{c}_Ru_L)$	$^{\mathrm{C}}$
SeuRL_3212	$(ar{ au}_L \mu_R)(ar{u}_R c_L)$	$^{\mathrm{C}}$
SeuRR_2321	$(ar{\mu}_L au_R)(ar{c}_Lu_R)$	$\mathbf{C}$
SeuRR_3212	$(ar{ au}_L\mu_R)(ar{u}_Lc_R)$	$\mathbf{C}$
TeuRR_2321	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{c}_L \sigma_{\mu  u} u_R)$	$^{\mathrm{C}}$
TeuRR_3212	$(ar{ au}_L\sigma^{\mu u}\mu_R)(ar{u}_L\sigma_{\mu u}c_R)$	C

#### cutaumu

WC name	Operator	Type
VeuLL_2312	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{u}_L \gamma_\mu c_L)$	C
VeuRR_2312	$(\bar{\mu}_R \gamma^\mu  au_R)(\bar{u}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
VeuLR_2312	$(ar{\mu}_L \gamma^\mu  au_L) (ar{u}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
VueLR_1223	$(\bar{u}_L\gamma^\mu c_L)(\bar{\mu}_R\gamma_\mu  au_R)$	$^{\mathrm{C}}$
SeuRL_2312	$(ar{\mu}_L au_R)(ar{u}_Rc_L)$	$^{\mathrm{C}}$
SeuRL_3221	$(ar{ au}_L \mu_R)(ar{c}_R u_L)$	$^{\mathrm{C}}$
SeuRR_2312	$(ar{\mu}_L au_R)(ar{u}_Lc_R)$	$^{\mathrm{C}}$
SeuRR_3221	$(ar{ au}_L \mu_R)(ar{c}_L u_R)$	$^{\mathrm{C}}$
TeuRR_2312	$(\bar{\mu}_L \sigma^{\mu\nu} \tau_R) (\bar{u}_L \sigma_{\mu\nu} c_R)$	$^{\mathrm{C}}$
TeuRR_3221	$(\bar{\tau}_L \sigma^{\mu\nu} \mu_R)(\bar{c}_L \sigma_{\mu\nu} u_R)$	$^{\mathrm{C}}$

### mutau

WC name	Operator	Type
egamma_23	$\bar{\mu}_L \sigma^{\mu\nu}  au_R F_{\mu\nu}$	C
egamma_32	$ar{ au}_L \sigma^{\mu u} \mu_R  ar{F}_{\mu u}$	$^{\mathrm{C}}$
VeeLL_1123	$(ar{e}_L \gamma^\mu e_L) (\dot{ar{\mu}}_L \gamma_\mu  au_L)$	$\mathbf{C}$
VeeLL_2223	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{\mu}_L \gamma_\mu  au_L)$	$\mathbf{C}$
VeeLL_2333	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_L \gamma_\mu  au_L)$	$^{\mathrm{C}}$
VeuLL_2311	$(ar{\mu}_L \gamma^\mu  au_L) (ar{u}_L \gamma_\mu u_L)$	$^{\mathrm{C}}$
VeuLL_2322	$(ar{\mu}_L \gamma^\mu  au_L) (ar{c}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
VedLL_2311	$(ar{\mu}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{C}$
VedLL_2322	$(ar{\mu}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu s_L)$	$\mathbf{C}$
VedLL_2333	$(ar{\mu}_L \gamma^\mu  au_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{C}$
VeeRR_1123	$(ar{e}_R\gamma^\mu e_R)(ar{\mu}_R\gamma_\mu au_R)$	$\mathbf{C}$
VeeRR_2223	$(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
VeeRR_2333	$(\bar{\mu}_R \gamma^\mu  au_R)(\bar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeuRR_2311	$(ar{\mu}_R \gamma^\mu  au_R) (ar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
VeuRR_2322	$(ar{\mu}_R \gamma^\mu  au_R) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
VedRR_2311	$(ar{\mu}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedRR_2322	$(ar{\mu}_R \gamma^\mu  au_R) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedRR_2333	$(ar{\mu}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
VeeLR_1123	$(ar{e}_L \gamma^\mu e_L) (ar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_1231	$(ar{e}_L \gamma^\mu \mu_L) (ar{ au}_R \gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_1321	$(ar{e}_L \gamma^\mu  au_L) (ar{\mu}_R \gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_2223	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	$^{\mathrm{C}}$
VeeLR_2311	$(ar{\mu}_L \gamma^\mu  au_L) (ar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
VeeLR_2322	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VeeLR_2333	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_3323	$(ar au_L\gamma^\mu au_L)(ar\mu_R\gamma_\mu au_R)$	$\mathbf{C}$
VeuLR_2311	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
VeuLR_2322	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
VedLR_2311	$(ar{\mu}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VedLR_2322	$(ar{\mu}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VedLR_2333	$(ar{\mu}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VueLR_1123	$(ar{u}_L \gamma^\mu u_L)(ar{\mu}_R \gamma_\mu  au_R)$	C
VueLR_2223	$(ar{c}_L \gamma^\mu c_L) (ar{\mu}_R \gamma_\mu  au_R)$	C
VdeLR_1123	$(ar{d}_L \gamma^\mu d_L) (ar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VdeLR_2223	$(ar{s}_L \gamma^\mu s_L)(ar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
VdeLR_3323	$(ar{b}_L \gamma^\mu b_L)(ar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
SeuRL_2311	$(ar{\mu}_L au_R)(ar{u}_Ru_L)$	$\mathbf{C}$
SeuRL_2322	$(ar{\mu}_L au_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
SeuRL_3211	$(ar{ au}_L\mu_R)(ar{u}_Ru_L)$	$\mathbf{C}$
SeuRL_3222	$(ar{ au}_L\mu_R)(ar{c}_Rc_L)$	C
	$(ar{\mu}_L au_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$

WC name	Operator	Type
SedRL_2322	$(\bar{\mu}_L  au_R)(\bar{s}_R s_L)$	$\overline{C}$
SedRL_2333	$(ar{\mu}_L au_R)(ar{b}_Rb_L)$	$\mathbf{C}$
SedRL_3211	$(ar{ au}_L\mu_R)(ar{d}_Rd_L)$	$\mathbf{C}$
SedRL_3222	$(ar{ au}_L\mu_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
SedRL_3233	$(ar{ au}_L\mu_R)(ar{b}_Rb_L)$	$^{\mathrm{C}}$
SeeRR_1123	$(ar{e}_L e_R)(ar{\mu}_L  au_R)$	$^{\mathrm{C}}$
SeeRR_1132	$(ar{e}_L e_R)(ar{ au}_L \mu_R)$	$^{\mathrm{C}}$
SeeRR_1231	$(ar{e}_L\mu_R)(ar{ au}_Le_R)$	$^{\mathrm{C}}$
SeeRR_1321	$(ar{e}_L au_R)(ar{\mu}_Le_R)$	$\mathbf{C}$
SeeRR_2223	$(ar{\mu}_L\mu_R)(ar{\mu}_L au_R)$	$\mathbf{C}$
SeeRR_2232	$(ar{\mu}_L \mu_R)(ar{ au}_L \mu_R)$	$\mathbf{C}$
SeeRR_2333	$(ar{\mu}_L au_R)(ar{ au}_L au_R)$	$\mathbf{C}$
SeeRR_3233	$(ar{ au}_L\mu_R)(ar{ au}_L au_R)$	$^{\mathrm{C}}$
SeuRR_2311	$(ar{\mu}_L au_R)(ar{u}_Lu_R)$	$^{\mathrm{C}}$
SeuRR_2322	$(ar{\mu}_L au_R)(ar{c}_Lc_R)$	$\mathbf{C}$
SeuRR_3211	$(ar{ au}_L\mu_R)(ar{u}_Lu_R)$	$\mathbf{C}$
SeuRR_3222	$(ar{ au}_L\mu_R)(ar{c}_Lc_R)$	$\mathbf{C}$
TeuRR_2311	$(\bar{\mu}_L \sigma^{\mu\nu} \tau_R) (\bar{u}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
TeuRR_2322	$(\bar{\mu}_L \sigma^{\mu  u}  au_R) (\bar{c}_L \sigma_{\mu  u} c_R)$	C
TeuRR_3211	$(\bar{ au}_L \sigma^{\mu u} \mu_R) (\bar{u}_L \sigma_{\mu u} u_R)$	$\mathbf{C}$
TeuRR_3222	$(ar{ au}_L \sigma^{\mu u} \mu_{ar{R}}) (ar{c}_L \sigma_{\mu u} c_R)$	$\mathbf{C}$
SedRR_2311	$(ar{\mu}_L au_R)(d_Ld_R)$	$\mathbf{C}$
SedRR_2322	$(ar{\mu}_L au_R)(ar{\underline{s}}_Ls_R)$	$\mathbf{C}$
SedRR_2333	$(ar{\mu}_L au_R)(b_L^{}b_R)$	$^{\mathrm{C}}$
SedRR_3211	$(ar{ au}_L\mu_R)(d_Ld_R)$	$\mathbf{C}$
SedRR_3222	$(ar{ au}_L\mu_R)(ar{s}_Ls_R)$	$\mathbf{C}$
SedRR_3233	$(ar{ au}_L\mu_R)(ar{b}_Lb_R)$	$^{\mathrm{C}}$
TedRR_2311	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{d}_L \sigma_{\mu  u} d_R)$	$^{\mathrm{C}}$
TedRR_2322	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{s}_L \sigma_{\mu  u} s_R)$	$^{\mathrm{C}}$
TedRR_2333	$(\bar{\mu}_L \sigma^{\mu  u}  au_R) (\bar{b}_L \sigma_{\mu  u} b_R)$	$^{\mathrm{C}}$
TedRR_3211	$(ar au_L\sigma^{\mu u}\mu_R)(ar d_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
TedRR_3222	$(ar{ au}_L \sigma^{\mu u} \mu_R) (ar{s}_L \sigma_{\mu u} s_R)$	$\mathbf{C}$
TedRR_3233	$(ar au_L\sigma^{\mu u}\mu_R)(ar b_L\sigma_{\mu u}b_R)$	$\mathbf{C}$

#### mue

WC name	Operator	Type
egamma_12	$ar{e}_L \sigma^{\mu u} \mu_R  F_{\mu u}$	С
egamma_21	$ar{\mu}_L \sigma^{\mu u} e_R  F_{\mu u}$	$\mathbf{C}$
VeeLL_1112	$(ar{e}_L \gamma^\mu e_L)(ar{e}_L \gamma_\mu \mu_L)$	$\mathbf{C}$
VeeLL_1222	$(ar{e}_L \gamma^\mu \mu_L) (ar{\mu}_L \gamma_\mu \mu_L)$	$\mathbf{C}$
VeeLL_1233	$(ar{e}_L\gamma^\mu\mu_L)(ar{ au}_L\gamma_\mu^\prime au_L)$	$\mathbf{C}$

WC name	Operator	Type
VeuLL_1211	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_L \gamma_\mu u_L)$	С
VeuLL_1222	$(ar{e}_L \gamma^\mu \mu_L) (ar{c}_L \gamma_\mu c_L)$	$\mathbf{C}$
VedLL_1211	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{C}$
VedLL_1222	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{s}_L \gamma_\mu s_L)$	$\mathbf{C}$
VedLL_1233	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_L \gamma_\mu b_L)$	C
VeeRR_1112	$(ar{e}_R \gamma^\mu e_R) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeRR_1222	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \mu_R)$	C
VeeRR_1233	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{ au}_R \gamma_\mu  au_R)$	C
VeuRR_1211	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
VeuRR_1222	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{c}_R \gamma_\mu c_R)$	C
VedRR_1211	$(\bar{e}_R\gamma^\mu\mu_R)(\bar{d}_R\gamma_\mu d_R)$	$\mathbf{C}$
VedRR_1222	$(ar{e}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedRR_1233	$(ar{e}_R \gamma^\mu \mu_R) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
VeeLR_1112	$(ar{e}_L \gamma^\mu e_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_1211	$(ar{e}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_1222	$(ar{e}_L \gamma^\mu \mu_L) (ar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_1233	$(ar{e}_L \gamma^\mu \mu_L) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_1332	$(ar{e}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_2212	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_2331	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_3312	$(ar au_L\gamma^\mu au_L)(ar e_R\gamma_\mu\mu_R)$	$\mathbf{C}$
VeuLR_1211	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
VeuLR_1222	$(ar{e}_L \gamma^\mu \mu_L) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
VedLR_1211	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedLR_1222	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_1233	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
VueLR_1112	$(ar{u}_L \gamma^\mu u_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VueLR_2212	$(ar{c}_L \gamma^\mu c_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VdeLR_1112	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VdeLR_2212	$(ar{s}_L\gamma^\mu s_L)(ar{e}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
VdeLR_3312	$(ar{b}_L \gamma^\mu b_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
SeuRL_1211	$(ar{e}_L\mu_R)(ar{u}_Ru_L)$	$\mathbf{C}$
SeuRL_1222	$(ar{e}_L\mu_R)(ar{c}_Rc_L)$	$\mathbf{C}$
SeuRL_2111	$(ar{\mu}_L e_R)(ar{u}_R u_L)$	$\mathbf{C}$
SeuRL_2122	$(ar{\mu}_L e_R)(ar{c}_R c_L)$	$\mathbf{C}$
SedRL_1211	$(ar{e}_L\mu_R)(ar{d}_Rd_L)$	$\mathbf{C}$
	$(ar{e}_L\mu_R)(ar{s}_Rs_L)$	$\mathbf{C}$
SedRL_1233	$(ar{e}_L\mu_R)(ar{b}_Rb_L)$	$^{\mathrm{C}}$
SedRL_2111	$(ar{\mu}_L e_R)(ar{d}_R d_L)$	$\dot{ ext{C}}$
SedRL_2122	$(ar{\mu}_L e_R)(ar{s}_R s_L) $	Č
SedRL_2133	$(ar{\mu}_L e_R)(ar{b}_R b_L) \ (ar{\mu}_L e_R)(ar{b}_R b_L)$	Č
SeeRR_1112	$(ar{e}_L e_R)(ar{e}_R e_L) \ (ar{e}_L e_R)(ar{e}_L \mu_R)$	$\overset{\circ}{\mathrm{C}}$
SeeRR_1121	$(\bar{e}_L e_R)(\bar{e}_L \mu_R) = (\bar{e}_L e_R)(\bar{\mu}_L e_R)$	$\overset{\circ}{\mathrm{C}}$
~ 5 5 1 1 1 2 1	(°L°n)(\\muL°n)	$\mathcal{C}$

WC name	Operator	Type
SeeRR_1222	$(\bar{e}_L\mu_R)(\bar{\mu}_L\mu_R)$	C
SeeRR_1233	$(ar{e}_L\mu_R)(ar{ au}_L au_R)$	$^{\mathrm{C}}$
SeeRR_1332	$(ar{e}_L au_R)(ar{ au}_L\mu_R)$	$^{\mathrm{C}}$
SeeRR_2122	$(ar{\mu}_L e_R)(ar{\mu}_L \mu_R)$	$^{\mathrm{C}}$
SeeRR_2133	$(ar{\mu}_L e_R)(ar{ au}_L  au_R)$	$\mathbf{C}$
SeeRR_2331	$(ar{\mu}_L au_R)(ar{ au}_Le_R)$	$\mathbf{C}$
SeuRR_1211	$(ar{e}_L\mu_R)(ar{u}_Lu_R)$	$\mathbf{C}$
SeuRR_1222	$(ar{e}_L\mu_R)(ar{c}_Lc_R)$	$\mathbf{C}$
SeuRR_2111	$(ar{\mu}_L e_R)(ar{u}_L u_R)$	$\mathbf{C}$
SeuRR_2122	$(ar{\mu}_L e_R)(ar{c}_L c_R)$	$\mathbf{C}$
TeuRR_1211	$(\bar{e}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
TeuRR_1222	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{c}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
TeuRR_2111	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
TeuRR_2122	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{c}_L \sigma_{\mu  u} c_R)$	$\mathbf{C}$
SedRR_1211	$(ar{e}_L\mu_R)(ar{d}_Ld_R)$	$\mathbf{C}$
SedRR_1222	$(ar{e}_L\mu_R)(ar{s}_Ls_R)$	$\mathbf{C}$
SedRR_1233	$(ar{e}_L\mu_R)(ar{b}_Lb_R)$	$^{\mathrm{C}}$
SedRR_2111	$(ar{\mu}_L e_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
SedRR_2122	$(ar{\mu}_L e_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
SedRR_2133	$(ar{\mu}_L e_R)(ar{b}_L b_R)$	$^{\mathrm{C}}$
TedRR_1211	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
TedRR_1222	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
TedRR_1233	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}b_R)$	$\mathbf{C}$
TedRR_2111	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} d_R)$	$\mathbf{C}$
TedRR_2122	$(ar{\mu}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
TedRR_2133	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{b}_L \sigma_{\mu  u} b_R)$	$\mathbf{C}$

## taue

WC name	Operator	Type
egamma_13	$ar{e}_L \sigma^{\mu u}  au_R  F_{\mu u}$	C
egamma_31	$ar{ au}_L \sigma^{\mu u} e_R  ar{F}_{\mu u}$	$\mathbf{C}$
VeeLL_1113	$(ar{e}_L \gamma^\mu e_L) (ar{e}_L \gamma_\mu  au_L)$	$\mathbf{C}$
VeeLL_1223	$(ar{e}_L \gamma^\mu \mu_L) (ar{\mu}_L \gamma_\mu  au_L)$	$\mathbf{C}$
VeeLL_1333	$(ar{e}_L \gamma^\mu  au_L) (ar{ au}_L \gamma_\mu  au_L)$	$\mathbf{C}$
VeuLL_1311	$(ar{e}_L\gamma^\mu au_L)(ar{u}_L\gamma_\mu u_L)$	$\mathbf{C}$
VeuLL_1322	$(ar{e}_L \gamma^\mu  au_L) (ar{c}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
VedLL_1311	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu d_L)$	C
VedLL_1322	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu s_L)$	$\mathbf{C}$
VedLL_1333	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{C}$
VeeRR_1113	$(ar{e}_R \gamma^\mu e_R) (ar{e}_R \gamma_\mu  au_R)$	C
VeeRR_1223	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$

WC name	Operator	Type
VeeRR_1333	$(ar{e}_R \gamma^\mu  au_R) (ar{ au}_R \gamma_\mu  au_R)$	С
VeuRR_1311	$(ar{e}_R\gamma^\mu au_R)(ar{u}_R\gamma_\mu u_R)$	$\mathbf{C}$
VeuRR_1322	$(ar{e}_R \gamma^\mu  au_R) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
VedRR_1311	$(ar{e}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedRR_1322	$(ar{e}_R \gamma^\mu  au_R) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedRR_1333	$(ar{e}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
VeeLR_1113	$(ar{e}_L \gamma^\mu e_L) (ar{e}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_1223	$(ar{e}_L \gamma^\mu \mu_L) (ar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_1311	$(ar{e}_L \gamma^\mu  au_L) (ar{e}_R \gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_1322	$(ar{e}_L \gamma^\mu  au_L) (ar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_1333	$(ar{e}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_2213	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_2312	$(ar{\mu}_L \gamma^\mu  au_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_3313	$(ar au_L\gamma^\mu au_L)(ar e_R\gamma_\mu au_R)$	$\mathbf{C}$
VeuLR_1311	$(ar{e}_L \gamma^\mu  au_L) (ar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
VeuLR_1322	$(ar{e}_L \gamma^\mu  au_L) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
VedLR_1311	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedLR_1322	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_1333	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
VueLR_1113	$(ar{u}_L \gamma^\mu u_L) (ar{e}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VueLR_2213	$(ar{c}_L \gamma^\mu c_L) (ar{e}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VdeLR_1113	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VdeLR_2213	$(ar{s}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VdeLR_3313	$(ar{b}_L\gamma^\mu b_L)(ar{e}_R\gamma_\mu au_R)$	$\mathbf{C}$
SeuRL_1311	$(ar{e}_L au_R)(ar{u}_Ru_L)$	$\mathbf{C}$
SeuRL_1322	$(ar{e}_L au_R)(ar{c}_Rc_L)$	$\mathbf{C}$
SeuRL_3111	$(ar{ au}_L e_R)(ar{u}_R u_L)$	$\mathbf{C}$
SeuRL_3122	$(ar{ au}_L e_R)(ar{c}_R c_L)$	$\mathbf{C}$
SedRL_1311	$(ar{e}_L au_R)(ar{d}_Rd_L)$	$\mathbf{C}$
SedRL_1322	$(ar{e}_L au_R)(ar{s}_Rs_L)$	$\mathbf{C}$
SedRL_1333	$(ar{e}_L au_R)(ar{b}_Rb_L)$	$\mathbf{C}$
SedRL_3111	$(ar{ au}_L e_R)(ar{d}_R d_L)$	$\mathbf{C}$
SedRL_3122	$(ar{ au}_L e_R)(ar{s}_R s_L)$	$\mathbf{C}$
SedRL_3133	$(ar{ au}_L e_R)(ar{b}_R b_L)$	$\mathbf{C}$
SeeRR_1113	$(ar{e}_L e_R)(ar{e}_L  au_R)$	$\mathbf{C}$
SeeRR_1131	$(ar{e}_L e_R)(ar{ au}_L e_R)$	$\mathbf{C}$
SeeRR_1223	$(ar{e}_L\mu_R)(ar{\mu}_L au_R)$	$\mathbf{C}$
SeeRR_1322	$(ar{e}_L au_R)(ar{\mu}_L\mu_R)$	$\mathbf{C}$
SeeRR_1333	$(ar{e}_L au_R)(ar{ au}_L au_R)$	$\mathbf{C}$
SeeRR_2132	$(ar{\mu}_L e_R)(ar{ au}_L \mu_R)$	$\mathbf{C}$
SeeRR_2231	$(ar{\mu}_L \mu_R)(ar{ au}_L e_R)$	$\mathbf{C}$
SeeRR_3133	$(ar{ au}_L e_R)(ar{ au}_L  au_R)$	$\mathbf{C}$
SeuRR_1311	$(ar{e}_L au_R)(ar{u}_Lu_R)$	$\mathbf{C}$

WC name	Operator	Type
SeuRR_1322	$(\bar{e}_L \tau_R)(\bar{c}_L c_R)$	C
SeuRR_3111	$(ar{ au}_L e_R)(ar{u}_L u_R)$	$^{\mathrm{C}}$
SeuRR_3122	$(ar{ au}_L e_R)(ar{c}_L c_R)$	$^{\mathrm{C}}$
TeuRR_1311	$(ar{e}_L\sigma^{\mu u} au_R)(ar{u}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
TeuRR_1322	$(ar{e}_L\sigma^{\mu u} au_R)(ar{c}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
TeuRR_3111	$(\bar{ au}_L \sigma^{\mu u} e_R) (\bar{u}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$
TeuRR_3122	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{c}_L\sigma_{\mu u}c_R)$	C
SedRR_1311	$(ar{e}_L au_R)(ar{d}_Ld_R)$	C
SedRR_1322	$(ar{e}_L au_R)(ar{s}_Ls_R)$	$^{\mathrm{C}}$
SedRR_1333	$(ar{e}_L au_R)(ar{b}_Lb_R)$	$\mathbf{C}$
SedRR_3111	$(ar{ au}_L e_R)(ar{d}_L d_R)$	$\mathbf{C}$
SedRR_3122	$(ar{ au}_L e_R)(ar{s}_L s_R)$	$\mathbf{C}$
SedRR_3133	$(ar{ au}_L e_R)(ar{b}_L b_R)$	$\mathbf{C}$
TedRR_1311	$(ar{e}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
TedRR_1322	$(ar{e}_L\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
TedRR_1333	$(ar{e}_L\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}b_R)$	$\mathbf{C}$
TedRR_3111	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
TedRR_3122	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$
TedRR_3133	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}b_R)$	С

### tauetaue

WC name	Operator	Type
VeeLL_1313	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{e}_L \gamma_\mu \tau_L)$	С
VeeRR_1313	$(\bar{e}_R \gamma^\mu \tau_R)(\bar{e}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
VeeLR_1313	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{e}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
SeeRR_1313	$(\bar{e}_L \tau_R)(\bar{e}_L \tau_R)$	$\mathbf{C}$
SeeRR_3131	$(\bar{ au}_L e_R)(\bar{ au}_L e_R)$	$\mathbf{C}$

### ${\tt taumutaumu}$

WC name	Operator	Type
VeeLL_2323	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{\mu}_L \gamma_\mu \tau_L)$	С
VeeRR_2323	$(\bar{\mu}_R \gamma^\mu \tau_R)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
VeeLR_2323	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
SeeRR_2323	$(\bar{\mu}_L  au_R)(\bar{\mu}_L  au_R)$	$\mathbf{C}$
SeeRR_3232	$(\bar{ au}_L\mu_R)(\bar{ au}_L\mu_R)$	$\mathbf{C}$

### muemue

WC name	Operator	Type
VeeLL_1212	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_L \gamma_\mu \mu_L)$	С
VeeRR_1212	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_1212	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
SeeRR_1212	$(\bar{e}_L \mu_R)(\bar{e}_L \mu_R)$	$\mathbf{C}$
SeeRR_2121	$(\bar{\mu}_L e_R)(\bar{\mu}_L e_R)$	$\mathbf{C}$

### muemutau

WC name	Operator	Type
VeeLL_1232	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\tau}_L \gamma_\mu \mu_L)$	С
VeeRR_1232	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\tau}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_1232	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\tau}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_2321	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{\mu}_R \gamma_\mu e_R)$	$\mathbf{C}$
SeeRR_1232	$(\bar{e}_L \mu_R)(\bar{\tau}_L \mu_R)$	$\mathbf{C}$
SeeRR_2123	$(\bar{\mu}_L e_R)(\bar{\mu}_L \tau_R)$	$\mathbf{C}$

### ${\tt etauemu}$

WC name	Operator	Type
VeeLL_1213	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_L \gamma_\mu \tau_L)$	С
VeeRR_1213	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{e}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
VeeLR_1213	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \tau_R)$	$^{\mathrm{C}}$
VeeLR_1312	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
SeeRR_1213	$(\bar{e}_L \mu_R)(\bar{e}_L \tau_R)$	$^{\mathrm{C}}$
SeeRR_2131	$(\bar{\mu}_L e_R)(\bar{\tau}_L e_R)$	С

#### tauetaumu

WC name	Operator	Type
VeeLL_1323	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{\mu}_L \gamma_\mu \tau_L)$	С
VeeRR_1323	$(\bar{e}_R \gamma^\mu \tau_R)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
VeeLR_1323	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{\mu}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
VeeLR_2313	$(\bar{\mu}_L \gamma^\mu \tau_L)(\bar{e}_R \gamma_\mu \tau_R)$	$\mathbf{C}$
SeeRR_1323	$(\bar{e}_L \tau_R)(\bar{\mu}_L \tau_R)$	$\mathbf{C}$
SeeRR_3132	$(\bar{ au}_L e_R)(\bar{ au}_L \mu_R)$	С

### nunununu

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

### nunumue

WC name	Operator	Type
VnueLL_1112	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	C
VnueLL_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
VnueLL_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
VnueLR_1112	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
VnueLR_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$
VnueLR_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{e}_R \gamma_{\mu} \mu_R)$	$\mathbf{C}$
VnueLL_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
VnueLR_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
VnueLL_1312	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
VnueLR_1312	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{e}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
VnueLL_2321	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{\mu}_L \gamma_{\mu} e_L)$	$^{\mathrm{C}}$
VnueLR_2321	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{\mu}_R \gamma_{\mu} e_R)$	$\mathbf{C}$
VnueLL_1221	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{\mu}_{L}\gamma_{\mu}e_{L})$	$\mathbf{C}$
VnueLR_1221	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
VnueLL_1321	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{\mu}_{L}\gamma_{\mu}e_{L})$	$\mathbf{C}$

WC name	Operator	Type
VnueLR_1321	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{\mu}_{R}\gamma_{\mu}e_{R})$	C
VnueLL_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
VnueLR_2312	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\tau L}) (\bar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$

#### nunumutau

WC name	Operator	Type
VnueLL_1123	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{\mu}_{L}\gamma_{\mu}\tau_{L})$	C
VnueLL_2223	$(ar u_{\mu L} \gamma^\mu  u_{\mu L}) (ar\mu_L \gamma_\mu  au_L)$	$\mathbf{C}$
VnueLL_3323	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_{L} \gamma_{\mu}  au_{L})$	$\mathbf{C}$
VnueLR_1123	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
VnueLR_2223	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{\mu}_R \gamma_{\mu}  au_R)$	$^{\mathrm{C}}$
VnueLR_3323	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_R \gamma_{\mu}  au_R)$	$^{\mathrm{C}}$
VnueLL_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
VnueLR_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
VnueLL_1332	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	$^{\mathrm{C}}$
VnueLR_1332	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
VnueLL_2323	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_L \gamma_{\mu}  au_L)$	$^{\mathrm{C}}$
VnueLR_2323	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_R \gamma_{\mu}  au_R)$	$^{\mathrm{C}}$
VnueLL_1223	$(ar u_{eL}\gamma^\mu u_{\mu L})(ar\mu_L\gamma_\mu au_L)$	$^{\mathrm{C}}$
VnueLR_1223	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
VnueLL_1323	$(ar u_{eL}\gamma^\mu u_{ au L})(ar\mu_L\gamma_\mu au_L)$	$^{\mathrm{C}}$
VnueLR_1323	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
VnueLL_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
VnueLR_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$

### nunutaue

WC name	Operator	Type
VnueLL_1113	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{L}\gamma_{\mu} au_{L})$	C
VnueLL_2213	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_L \gamma_{\mu}  au_L)$	$^{\mathrm{C}}$
VnueLL_3313	$(\bar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (\bar{e}_L \gamma_{\mu}  au_L)$	$^{\mathrm{C}}$
VnueLR_1113	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
VnueLR_2213	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_R \gamma_{\mu}  au_R)$	$^{\mathrm{C}}$
VnueLR_3313	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{e}_R \gamma_{\mu}  au_R)$	$^{\mathrm{C}}$
VnueLL_1231	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
VnueLR_1231	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
VnueLL_1331	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
VnueLR_1331	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu}e_{R})$	C
VnueLL_2313	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu}  au_L)$	C

WC name	Operator	Type
VnueLR_2313	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_R \gamma_{\mu}  au_R)$	С
VnueLL_1213	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
VnueLR_1213	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{e}_R\gamma_{\mu} au_R)$	$^{\mathrm{C}}$
VnueLL_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
VnueLR_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
VnueLL_2331	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_L \gamma_{\mu} e_L)$	$^{\mathrm{C}}$
VnueLR_2331	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_R \gamma_{\mu} e_R)$	C

# dF=0

WC name	Operator	Type
egamma_11	$\bar{e}_L \sigma^{\mu  u} e_R F_{\mu  u}$	C
egamma_22	$ar{\mu}_L \sigma^{\mu u} \mu_R  \dot{F}_{\mu u}$	C
egamma_33	$ar{ au}_L \sigma^{\mu u}  au_R  F_{\mu u}$	$^{\mathrm{C}}$
ugamma_11	$ar{u}_L \sigma^{\mu  u} u_R  F_{\mu  u}$	$^{\mathrm{C}}$
ugamma_22	$ar{c}_L \sigma^{\mu u} c_R  F_{\mu u}$	$\mathbf{C}$
dgamma_11	$ar{d}_L \sigma^{\mu u} d_R  F_{\mu u}$	$^{\mathrm{C}}$
dgamma_22	$ar{s}_L \sigma^{\mu  u} s_R  F_{\mu  u}$	$^{\mathrm{C}}$
dgamma_33	$ar{b}_L \sigma^{\mu u} b_R  F_{\mu u}$	$\mathbf{C}$
uG_11	$ar{u}_L \sigma^{\mu u} T^A u_R  G^A_{\mu u}$	C
uG_22	$ar{u}_L \sigma^{\mu u} T^A u_R  G^A_{\mu u} \ ar{c}_L \sigma^{\mu u} T^A c_R  G^A_{\mu u}$	C
dG_11	$ar{d}_L \sigma^{\mu u} T^A d_R  G^A_{\mu u}$	$\mathbf{C}$
dG_22	$ar{s}_L \sigma^{\mu u} T^A s_R  G^{\widetilde{A}}_{\mu u}$	$\mathbf{C}$
dG_33	$ar{b}_L \sigma^{\mu u} T^A b_R  G^{\widetilde{A}}_{\mu u}$	$\mathbf{C}$
G	$f^{ABC}G^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	R
Gtilde	$f^{ABC}\widetilde{G}^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	R
VeeLL_1111	$(ar{e}_L\gamma^{\mu}e_L)(ar{e}_L\gamma_{\mu}e_L)$	R
VeeLL_1122	$(ar{e}_L \gamma^\mu e_L) (ar{\mu}_L \gamma_\mu \mu_L)$	R
VeeLL_1133	$(ar{e}_L\gamma^\mu e_L)(ar{ au}_L\gamma^\mu_\mu au_L)$	${ m R}$
VeeLL_2222	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{\mu}_L \gamma_\mu \mu_L)$	R
VeeLL_2233	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{ au}_L \gamma_\mu  au_L)$	R
VeeLL_3333	$(ar{ au}_L\gamma^\mu au_L)(ar{ au}_L\gamma_\mu au_L)$	R
VeuLL_1111	$(ar{e}_L \gamma^\mu e_L) (ar{u}_L \gamma_\mu u_L)$	$\mathbf{R}$
VeuLL_1122	$(ar{e}_L \gamma^\mu e_L) (ar{c}_L \gamma_\mu c_L)$	R
VeuLL_2211	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{u}_L \gamma_\mu u_L)$	R
VeuLL_2222	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{c}_L \gamma_\mu c_L)$	R
VeuLL_3311	$(ar au_L\gamma^\mu au_L)(ar u_L\gamma_\mu u_L)$	R
VeuLL_3322	$(ar{ au}_L \gamma^\mu  au_L) (ar{c}_L \gamma_\mu c_L)$	R
VedLL_1111	$(ar{e}_L \gamma^\mu e_L) (ar{d}_L \gamma_\mu d_L)$	${ m R}$
VedLL_1122	$(ar{e}_L \gamma^\mu e_L) (ar{s}_L \gamma_\mu s_L)$	R
VedLL_1133	$(ar{e}_L \gamma^\mu e_L) (ar{b}_L \gamma_\mu b_L)$	R
VedLL_2211	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu d_L)$	R

WC name	Operator	Type
VedLL_2222	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{s}_L \gamma_\mu s_L)$	R
VedLL_2233	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{b}_L \gamma_\mu b_L)$	${ m R}$
VedLL_3311	$(ar au_L\gamma^\mu au_L)(ar d_L\gamma_\mu d_L)$	${ m R}$
VedLL_3322	$(ar{ au}_L\gamma^\mu au_L)(ar{s}_L\gamma_\mu s_L)$	${ m R}$
VedLL_3333	$(ar au_L\gamma^\mu au_L)(ar b_L\gamma_\mu b_L)$	${ m R}$
VuuLL_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{u}_L \gamma_\mu u_L)$	${ m R}$
VuuLL_1122	$(ar{u}_L \gamma^\mu u_L)(ar{c}_L \gamma_\mu c_L)$	R
VuuLL_1221	$(ar{u}_L \gamma^\mu c_L) (ar{c}_L \gamma_\mu u_L)$	R
VuuLL_2222	$(ar{c}_L \gamma^\mu c_L) (ar{c}_L \gamma_\mu c_L)$	R
VddLL_1111	$(ar{d}_L \gamma^\mu d_L) (ar{d}_L \gamma_\mu d_L)$	R
VddLL_1122	$(ar{d}_L\gamma^\mu d_L)(ar{s}_L\gamma_\mu s_L)$	R
VddLL_1133	$(ar{d}_L \gamma^\mu d_L) (ar{b}_L \gamma_\mu b_L)$	R
VddLL_1221	$(ar{d}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu d_L)$	R
VddLL_1331	$(ar{d}_L \gamma^\mu b_L) (ar{b}_L \gamma_\mu d_L)$	${ m R}$
VddLL_2222	$(ar{s}_L \gamma^\mu s_L)(ar{s}_L \gamma_\mu s_L)$	R
VddLL_2233	$(ar{s}_L \gamma^\mu s_L) (ar{b}_L \gamma_\mu b_L)$	R
VddLL_2332	$(ar{s}_L \gamma^\mu b_L) (ar{b}_L \gamma_\mu s_L)$	R
VddLL_3333	$(ar{b}_L \gamma^\mu b_L) (ar{b}_L \gamma_\mu b_L)$	${ m R}$
V1udLL_1111	$(ar{u}_L \gamma^\mu u_L) (ar{d}_L \gamma_\mu d_L)$	${ m R}$
V1udLL_1122	$(ar{u}_L \gamma^\mu u_L) (ar{s}_L \gamma_\mu s_L)$	R
V1udLL_1133	$(ar{u}_L \gamma^\mu u_L) (ar{b}_L \gamma_\mu b_L)$	R
V1udLL_2211	$(ar{c}_L \gamma^\mu c_L) (ar{d}_L \gamma_\mu d_L)$	R
V1udLL_2222	$(ar{c}_L \gamma^\mu c_L) (ar{s}_L \gamma_\mu s_L)$	R
V1udLL_2233	$(ar{c}_L \gamma^\mu c_L) (ar{b}_L \gamma_\mu b_L)$	R
V8udLL_1111	$(ar{u}_L \gamma^\mu T^A u_L) (ar{d}_L \gamma_\mu T^A d_L)$	R
V8udLL_1122	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_L \gamma_\mu T^A s_L)$	R
V8udLL_1133	$(ar{u}_L \gamma^\mu T^A u_L) (ar{b}_L \gamma_\mu T^A b_L)$	R
V8udLL_2211	$(ar{c}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A d_L)$	R
V8udLL_2222	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{s}_L \gamma_\mu T^A s_L)$	R
V8udLL_2233	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{b}_L \gamma_\mu T^A b_L)$	R
VeeRR_1111	$(ar{e}_R \gamma^\mu e_R) (ar{e}_R \gamma_\mu e_R)$	R
VeeRR_1122	$(ar{e}_R \gamma^\mu e_R) (ar{\mu}_R \gamma_\mu \mu_R)$	${ m R}$
VeeRR_1133	$(ar{e}_R \gamma^\mu e_R) (ar{ au}_R \gamma_\mu  au_R)$	R
VeeRR_2222	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{\mu}_R \gamma_\mu \mu_R)$	R
VeeRR_2233	$(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{ au}_R \gamma_\mu  au_R)$	R
VeeRR_3333	$(ar{ au}_R\gamma^\mu au_R)(ar{ au}_R\gamma_\mu au_R)$	$\mathbf{R}$
VeuRR_1111	$(\bar{e}_R\gamma^\mu e_R)(\bar{u}_R\gamma_\mu u_R)$	R
VeuRR_1122	$(ar{e}_R\gamma^\mu e_R)(ar{c}_R\gamma_\mu c_R)$	R
VeuRR_2211	$(ar{\mu}_R\gamma^\mu\mu_R)(ar{u}_R\gamma_\mu u_R)$	R
VeuRR_2222	$(ar{\mu}_R\gamma^\mu\mu_R)(ar{c}_R\gamma_\mu c_R)$	R
VeuRR_3311	$(ar{ au}_R\gamma^\mu au_R)(ar{u}_R\gamma_\mu u_R)$	R
VeuRR_3322	$(\bar{ au}_R \gamma^\mu  au_R)(\bar{c}_R \gamma_\mu c_R)$	R
VedRR_1111	$(ar{e}_R \gamma^\mu e_R) (d_R \gamma_\mu d_R)$	R

WC name	Operator	Type
VedRR_1122	$(\bar{e}_R \gamma^\mu e_R)(\bar{s}_R \gamma_\mu s_R)$	R
VedRR_1133	$(ar{e}_R \gamma^\mu e_R) (ar{b}_R \gamma_\mu b_R)$	R
VedRR_2211	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu d_R)$	${ m R}$
VedRR_2222	$(ar{\mu}_R \gamma^\mu \mu_R)(ar{s}_R \gamma_\mu s_R)$	${ m R}$
VedRR_2233	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
VedRR_3311	$(ar au_R\gamma^\mu au_R)(ar d_R\gamma_\mu d_R)$	${ m R}$
VedRR_3322	$(ar{ au}_R \gamma^\mu  au_R) (ar{s}_R \gamma_\mu s_R)$	${ m R}$
VedRR_3333	$(ar{ au}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
VuuRR_1111	$(\bar{u}_R \gamma^\mu u_R)(\bar{u}_R \gamma_\mu u_R)$	R
VuuRR_1122	$(ar{u}_R \gamma^\mu u_R) (ar{c}_R \gamma_\mu c_R)$	R
VuuRR_1221	$(ar{u}_R\gamma^\mu c_R)(ar{c}_R\gamma_\mu u_R)$	$\mathbf{R}$
VuuRR_2222	$(ar{c}_R \gamma^\mu c_R) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{R}$
VddRR_1111	$(ar{d}_R \gamma^\mu d_R) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{R}$
VddRR_1122	$(ar{d}_R \gamma^\mu d_R) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{R}$
VddRR_1133	$(ar{d}_R \gamma^\mu d_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
VddRR_1221	$(ar{d}_R \gamma^\mu s_R) (ar{s}_R \gamma_\mu d_R)$	${ m R}$
VddRR_1331	$(ar{d}_R \gamma^\mu b_R) (ar{b}_R \gamma_\mu d_R)$	${ m R}$
VddRR_2222	$(ar{s}_R \gamma^\mu s_R) (ar{s}_R \gamma_\mu s_R)$	${ m R}$
VddRR_2233	$(ar{s}_R \gamma^\mu s_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
VddRR_2332	$(ar{s}_R \gamma^\mu b_R) (ar{b}_R \gamma_\mu s_R)$	${ m R}$
VddRR_3333	$(ar{b}_R \gamma^\mu b_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
V1udRR_1111	$(ar{u}_R \gamma^\mu u_R) (ar{d}_R \gamma_\mu d_R)$	${ m R}$
V1udRR_1122	$(ar{u}_R \gamma^\mu u_R) (ar{s}_R \gamma_\mu s_R)$	R
V1udRR_1133	$(ar{u}_R \gamma^\mu u_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
V1udRR_2211	$(ar{c}_R \gamma^\mu c_R) (ar{d}_R \gamma_\mu d_R)$	${ m R}$
V1udRR_2222	$(ar{c}_R \gamma^\mu c_R) (ar{s}_R \gamma_\mu s_R)$	${ m R}$
V1udRR_2233	$(ar{c}_R \gamma^\mu c_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
V8udRR_1111	$(\bar{u}_R \gamma^\mu T^A u_R)(\bar{d}_R \gamma_\mu T^A d_R)$	${ m R}$
V8udRR_1122	$(\bar{u}_R \gamma^\mu T^A u_R)(\bar{s}_R \gamma_\mu T^A s_R)$	${ m R}$
V8udRR_1133	$(\bar{u}_R \gamma^\mu T^A u_R)(\bar{b}_R \gamma_\mu T^A b_R)$	${ m R}$
V8udRR_2211	$(\bar{c}_R \gamma^\mu T^A c_R) (\bar{d}_R \gamma_\mu T^A d_R)$	${ m R}$
V8udRR_2222	$(\bar{c}_R \gamma^\mu T^A c_R) (\bar{s}_R \gamma_\mu T^A s_R)$	${ m R}$
V8udRR_2233	$(\bar{c}_R \gamma^\mu T^A c_R)(\bar{b}_R \gamma_\mu T^A b_R)$	${ m R}$
VeeLR_1111	$(ar{e}_L \gamma^\mu e_L) (ar{e}_R \gamma_\mu e_R)$	${ m R}$
VeeLR_1122	$(ar{e}_L \gamma^\mu e_L)(ar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{R}$
VeeLR_1133	$(ar{e}_L \gamma^\mu e_L) (ar{ au}_R \gamma_\mu  au_R)$	R
VeeLR_1221	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_1331	$(ar{e}_L\gamma^\mu au_L)(ar{ au}_R\gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_2211	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu e_R)$	R
VeeLR_2222	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	R
VeeLR_2233	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{ au}_R \gamma_\mu  au_R)$	R
VeeLR_2332	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VeeLR_3311	$(ar au_L\gamma^\mu au_L)(ar e_R\gamma_\mu e_R)$	R

WC name	Operator	Type
VeeLR_3322	$(\bar{\tau}_L \gamma^\mu \tau_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	R
VeeLR_3333	$(ar{ au}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu  au_R)$	R
VeuLR_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{u}_R \gamma_\mu u_R)$	R
VeuLR_1122	$(\bar{e}_L \gamma^\mu e_L)(\bar{c}_R \gamma_\mu c_R)$	R
VeuLR_2211	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{u}_R \gamma_\mu u_R)$	R
VeuLR_2222	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{c}_R \gamma_\mu c_R)$	R
VeuLR_3311	$(ar{ au}_L \gamma^\mu  au_L) (ar{u}_R \gamma_\mu u_R)$	R
VeuLR_3322	$(ar{ au}_L \gamma^\mu  au_L) (ar{c}_R \gamma_\mu c_R)$	R
VedLR_1111	$(ar{e}_L \gamma^\mu e_L) (ar{d}_R \gamma_\mu d_R)$	R
VedLR_1122	$(ar{e}_L \gamma^\mu e_L) (ar{s}_R \gamma_\mu s_R)$	R
VedLR_1133	$(ar{e}_L \gamma^\mu e_L) (ar{b}_R \gamma_\mu b_R)$	R
VedLR_2211	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu d_R)$	R
VedLR_2222	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{s}_R \gamma_\mu s_R)$	R
VedLR_2233	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{b}_R \gamma_\mu b_R)$	R
VedLR_3311	$(ar{ au}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu d_R)$	R
VedLR_3322	$(ar{ au}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu s_R)$	R
VedLR_3333	$(ar au_L\gamma^\mu au_L)(ar b_R\gamma_\mu b_R)$	R
VueLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu e_R)$	R
VueLR_1122	$(\bar{u}_L \gamma^\mu u_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	R
VueLR_1133	$(\bar{u}_L \gamma^\mu u_L)(\bar{ au}_R \gamma_\mu  au_R)$	R
VueLR_2211	$(ar{c}_L \gamma^\mu c_L) (ar{e}_R \gamma_\mu e_R)$	R
VueLR_2222	$(\bar{c}_L \gamma^\mu c_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	R
VueLR_2233	$(ar{c}_L \gamma^\mu c_L) (ar{ au}_R \gamma_\mu  au_R)$	R
VdeLR_1111	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu e_R)$	R
VdeLR_1122	$(ar{d}_L \gamma^\mu d_L)(ar{\mu}_R \gamma_\mu \mu_R)$	R
VdeLR_1133	$(ar{d}_L \gamma^\mu d_L) (ar{ au}_R \gamma_\mu  au_R)$	R
VdeLR_2211	$(\bar{s}_L \gamma^\mu s_L)(\bar{e}_R \gamma_\mu e_R)$	R
VdeLR_2222	$(ar s_L \gamma^\mu s_L)(ar \mu_R \gamma_\mu \mu_R)$	R
VdeLR_2233	$(\bar{s}_L \gamma^\mu s_L)(\bar{ au}_R \gamma_\mu  au_R)$	R
VdeLR_3311	$(ar{b}_L\gamma^\mu b_L)(ar{e}_R\gamma_\mu e_R)$	R
VdeLR_3322	$(ar{b}_L \gamma^\mu b_L)(ar{\mu}_R \gamma_\mu \mu_R)$	R
VdeLR_3333	$(ar{b}_L \gamma^\mu b_L)(ar{ au}_R \gamma_\mu  au_R)$	R
V1uuLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{u}_R \gamma_\mu u_R)$	R
V1uuLR_1122	$(\bar{u}_L \gamma^\mu u_L)(\bar{c}_R \gamma_\mu c_R)$	R
V1uuLR_1221	$(ar{u}_L \gamma^\mu c_L)(ar{c}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
V1uuLR_2211	$(\bar{c}_L \gamma^\mu c_L)(\bar{u}_R \gamma_\mu u_R)$	R
V1uuLR_2222	$(\bar{c}_L \gamma^\mu c_L)(\bar{c}_R \gamma_\mu c_R)$	R
V8uuLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{u}_R \gamma_\mu T^A u_R)$	R
V8uuLR_1122	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{c}_R \gamma_\mu T^A c_R)$	$\mathbf{R}$
V8uuLR_1221	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{c}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V8uuLR_2211	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{u}_R \gamma_\mu T^A u_R)$	R
V8uuLR_2222	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{c}_R \gamma_\mu T^A c_R)$	$\mathbf{R}$
V1udLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{d}_R \gamma_\mu d_R)$	${ m R}$

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WC name	Operator	Type
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udLR_1122	$(\bar{u}_L \gamma^\mu u_L)(\bar{s}_R \gamma_\mu s_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udLR_1133		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udLR_2211		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udLR_2222		$\mathbf{R}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1udLR_2233	$(ar{c}_L \gamma^\mu c_L) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A d_R)$	$\mathbf{R}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udLR_1122	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_R \gamma_\mu T^A s_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udLR_1133	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{b}_R \gamma_\mu T^A b_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udLR_2211	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{d}_R \gamma_\mu T^A d_R)$	$\mathbf{R}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udLR_2222	$(ar{c}_L \gamma^\mu T^A c_L) (ar{s}_R \gamma_\mu T^A s_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8udLR_2233	$(ar{c}_L \gamma^\mu T^A c_L) (ar{b}_R \gamma_\mu T^A b_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1duLR_1111	$(ar{d}_L\gamma^\mu d_L)(ar{u}_R\gamma_\mu u_R)$	$\mathbf{R}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1duLR_1122		$\mathbf{R}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1duLR_2211	$(\bar{s}_L \gamma^\mu s_L)(\bar{u}_R \gamma_\mu u_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1duLR_2222	$(ar{s}_L \gamma^\mu s_L) (ar{c}_R \gamma_\mu c_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1duLR_3311	$(ar{b}_L\gamma^\mu b_L)(ar{u}_R\gamma_\mu u_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1duLR_3322	$(ar{b}_L\gamma^\mu b_L)(ar{c}_R\gamma_\mu c_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8duLR_1111		$\mathbf{R}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8duLR_1122		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8duLR_2211		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8duLR_2222	\_ ', \\ - ', \\ \\ - ', \\ \\ - ', \\ \\ \\ - ', \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8duLR_3311	$(ar{b}_L \gamma^\mu T^A b_L) (ar{u}_R \gamma_\mu T^A u_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V8duLR_3322	$(ar{b}_L \gamma^\mu T^A b_L) (ar{c}_R \gamma_\mu T^A c_R)$	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1ddLR_1111		R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V1ddLR_1122	$(ar{d}_L \gamma^\mu d_L) (ar{s}_R \gamma_\mu s_R)$	R
$\begin{array}{cccc} \text{V1ddLR\_1331} & (\bar{d}_L\gamma^\mu b_L)(\bar{b}_R\gamma_\mu d_R) & \text{C} \\ \text{V1ddLR\_2211} & (\bar{s}_L\gamma^\mu s_L)(\bar{d}_R\gamma_\mu d_R) & \text{R} \\ \text{V1ddLR\_2222} & (\bar{s}_L\gamma^\mu s_L)(\bar{s}_R\gamma_\mu s_R) & \text{R} \\ \text{V1ddLR\_2233} & (\bar{s}_L\gamma^\mu s_L)(\bar{b}_R\gamma_\mu b_R) & \text{R} \end{array}$	V1ddLR_1133	$(ar{d}_L\gamma^\mu d_L)(ar{b}_R\gamma_\mu b_R)$	R
$\begin{array}{lll} \text{V1ddLR\_2211} & (\bar{s}_L\gamma^\mu s_L)(\bar{d}_R\gamma_\mu d_R) & \text{R} \\ \text{V1ddLR\_2222} & (\bar{s}_L\gamma^\mu s_L)(\bar{s}_R\gamma_\mu s_R) & \text{R} \\ \text{V1ddLR\_2233} & (\bar{s}_L\gamma^\mu s_L)(\bar{b}_R\gamma_\mu b_R) & \text{R} \end{array}$	V1ddLR_1221	$(ar{d}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_2222 $(\bar{s}_L \gamma^\mu s_L)(\bar{s}_R \gamma_\mu s_R)$ R V1ddLR_2233 $(\bar{s}_L \gamma^\mu s_L)(\bar{b}_R \gamma_\mu b_R)$ R	V1ddLR_1331	$(ar{d}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_2233 $(\bar{s}_L \gamma^{\mu} s_L)(\bar{b}_R \gamma_{\mu} b_R)$ R	V1ddLR_2211	$(ar{s}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu d_R)$	${ m R}$
	V1ddLR_2222	$(ar{s}_L \gamma^\mu s_L)(ar{s}_R \gamma_\mu s_R)$	$\mathbf{R}$
VIAGID 2222 $(\bar{a}_{-2}, \mu b_{-1})(\bar{b}_{-2}, a_{-1})$	V1ddLR_2233	$(ar{s}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{R}$
VIUULN_2332 $(s_L\gamma, \sigma_L)(\sigma_R\gamma_\mu s_R)$	V1ddLR_2332	$(ar{s}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1ddLR_3311 $(\bar{b}_L \gamma^{\mu} b_L)(\bar{d}_R \gamma_{\mu} d_R)$ R	V1ddLR_3311		$\mathbf{R}$
V1ddLR_3322 $(\bar{b}_L \gamma^{\mu} b_L)(\bar{s}_R \gamma_{\mu} s_R)$ R	V1ddLR_3322	$(ar{b}_L\gamma^\mu b_L)(ar{s}_R\gamma_\mu s_R)$	$\mathbf{R}$
V1ddLR_3333 $(\bar{b}_L \gamma^{\mu} b_L)(\bar{b}_R \gamma_{\mu} b_R)$ R	V1ddLR_3333	$(ar{b}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu b_R)$	$\mathbf{R}$
V8ddLR_1111 $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A d_R)$ R	V8ddLR_1111	$(\bar{d}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A d_R)$	$\mathbf{R}$
V8ddLR_1122 $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A s_R)$ R	V8ddLR_1122	$(\bar{d}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A s_R)$	${ m R}$
V8ddLR_1133 $(\bar{d}_L \gamma^\mu T^A d_L)(\bar{b}_R \gamma_\mu T^A b_R)$ R	V8ddLR_1133	$(ar{d}_L \gamma^\mu T^A d_L) (ar{b}_R \gamma_\mu T^A b_R)$	${ m R}$
V8ddLR_1221 $(\bar{d}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A d_R)$ C	V8ddLR_1221		$\mathbf{C}$
V8ddLR_1331 $(\bar{d}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A d_R)$ C	V8ddLR_1331		$\mathbf{C}$
V8ddLR_2211 $(\bar{s}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A d_R)$ R	<del>-</del>		${ m R}$
V8ddLR_2222 $(\bar{s}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A s_R)$ R	V8ddLR_2222		R

WC name	Operator	Type
	$(\bar{s}_L \gamma^\mu T^A s_L)(\bar{b}_R \gamma_\mu T^A b_R)$	R
V8ddLR_2332	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A s_R)$	C
V8ddLR_3311	$(\bar{b}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A d_R)$	R
V8ddLR_3322	$(\bar{b}_L\gamma^\mu T^A b_L)(\bar{s}_R\gamma_\mu T^A s_R)$	R
V8ddLR_3333	$(ar{b}_L\gamma^\mu T^A b_L)(ar{b}_R\gamma_\mu T^A b_R)$	R
V1udduLR_1111	$(\bar{u}_L\gamma^\mu d_L)(\bar{d}_R\gamma_\mu u_R)$	C
V1udduLR_1221	$(\bar{u}_L\gamma^\mu s_L)(\bar{s}_R\gamma_\mu u_R)$	$\overset{\circ}{\mathrm{C}}$
V1udduLR_1331	$(ar{u}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu u_R)$	Č
V1udduLR_2112	$(ar{c}_L\gamma^\mu d_L)(ar{d}_R\gamma_\mu c_R)$	$^{ m C}$
V1udduLR_2222	$(ar{c}_L\gamma^\mu s_L)(ar{s}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
V1udduLR_2332	$(ar{c}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
V8udduLR_1111	$(ar{u}_L\gamma^\mu T^A d_L)(ar{d}_R\gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_1221	$(ar{u}_L\gamma^\mu T^A s_L)(ar{s}_R\gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_1331	$(ar{u}_L\gamma^\mu T^A b_L)(ar{b}_R\gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_2112	$(\bar{c}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
V8udduLR_2222	$(\bar{c}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2332	$(\bar{c}_L \gamma^\mu T^A b_L) (\bar{b}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
SeuRL_1111	$(ar{e}_L e_R)(ar{u}_R u_L)$	$\mathbf{C}$
SeuRL_1122	$(ar{e}_L e_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$
SeuRL_2211	$(ar{\mu}_L\mu_R)(ar{u}_Ru_L)$	$^{\mathrm{C}}$
SeuRL_2222	$(ar{\mu}_L\mu_R)(ar{c}_Rc_L)$	$\mathbf{C}$
SeuRL_3311	$(ar au_L au_R)(ar u_Ru_L)$	$\mathbf{C}$
SeuRL_3322	$(ar{ au}_L au_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
SedRL_1111	$(ar{e}_L e_R)(d_R d_L)$	$^{\mathrm{C}}$
SedRL_1122	$(ar{e}_L e_R)(ar{s}_R s_L)$	$^{\mathrm{C}}$
SedRL_1133	$(ar{e}_L e_R)(b_{ar{R}} b_L)$	C
SedRL_2211	$(ar{\mu}_L \mu_R)(d_R d_L)$	$^{\mathrm{C}}$
SedRL_2222	$(ar{\mu}_L\mu_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
SedRL_2233	$(ar{\mu}_L\mu_R)(ar{b}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3311	$(ar au_L au_R)(d_Rd_L)$	$^{\mathrm{C}}$
SedRL_3322	$(ar{ au}_L au_R)(ar{s}_Rs_L)$	C
SedRL_3333	$(ar au_L au_R)(b_Rb_L)$	C
SeeRR_1111	$(ar{e}_L e_R)(ar{e}_L e_R)$	C
SeeRR_1122	$(ar{e}_L e_R)(ar{\mu}_L \mu_R)$	C
SeeRR_1133	$(ar{e}_L e_R)(ar{ au}_L  au_R)$	C
SeeRR_1221	$(ar{e}_L\mu_R)(ar{\mu}_Le_R)$	C
SeeRR_1331	$(ar{e}_L au_R)(ar{ au}_Le_R)$	C
SeeRR_2222	$(\bar{\mu}_L \mu_R)(\bar{\mu}_L \mu_R)$	С
SeeRR_2233	$(ar{\mu}_L\mu_R)(ar{ au}_L au_R)$	C
SeeRR_2332	$(\bar{\mu}_L \tau_R)(\bar{\tau}_L \mu_R)$	C
SeeRR_3333	$(ar{ au}_L au_R)(ar{ au}_L au_R)$	$^{\mathrm{C}}$
SeuRR_1111	$(\bar{e}_L e_R)(\bar{u}_L u_R)$	C C
SeuRR_1122	$(ar{e}_L e_R)(ar{c}_L c_R)$	C

WC name	Operator	Type
SeuRR_2211	$(\bar{\mu}_L \mu_R)(\bar{u}_L u_R)$	C
SeuRR_2222	$(ar{\mu}_L\mu_R)(ar{c}_Lc_R)$	$^{\mathrm{C}}$
SeuRR_3311	$(ar{ au}_L au_R)(ar{u}_Lu_R)$	$^{\mathrm{C}}$
SeuRR_3322	$(ar{ au}_L au_R)(ar{c}_Lc_R)$	$^{\mathrm{C}}$
TeuRR_1111	$(ar{e}_L\sigma^{\mu u}e_R)(ar{u}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
TeuRR_1122	$(ar{e}_L\sigma^{\mu u}e_R)(ar{c}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
TeuRR_2211	$(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	$^{\mathrm{C}}$
TeuRR_2222	$(ar{\mu}_L \sigma^{\mu u} \mu_R) (ar{c}_L \sigma_{\mu u} c_R)$	$^{\mathrm{C}}$
TeuRR_3311	$(ar{ au}_L\sigma^{\mu u} au_R)(ar{u}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
TeuRR_3322	$(ar{ au}_L\sigma^{\mu u} au_R)(ar{c}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
SedRR_1111	$(ar{e}_L e_R)(ar{d}_L d_R)$	$\mathbf{C}$
SedRR_1122	$(ar{e}_L e_R)(ar{s}_L s_R)$	$\mathbf{C}$
SedRR_1133	$(ar{e}_L e_R)(ar{b}_L b_R)$	$\mathbf{C}$
SedRR_2211	$(ar{\mu}_L\mu_R)(ar{d}_Ld_R)$	$^{\mathrm{C}}$
SedRR_2222	$(ar{\mu}_L\mu_R)(ar{s}_Ls_R)$	$\mathbf{C}$
SedRR_2233	$(ar{\mu}_L\mu_R)(ar{b}_Lb_R)$	$^{\mathrm{C}}$
	$(ar{ au}_L au_R)(ar{d}_Ld_R)$	$^{\mathrm{C}}$
SedRR_3322	$(ar{ au}_L au_R)(ar{s}_Ls_R)$	$^{ m C}$
	$(ar{ au}_L au_R)(ar{b}_Lb_R)$	$\mathbf{C}$
TedRR_1111	$(ar{e}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$
TedRR_1122	$(\bar{e}_L\sigma^{\mu u}e_R)(\bar{s}_L\sigma_{\mu u}s_R)$	$\dot{ ext{C}}$
TedRR_1133	$(ar{e}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}b_R)$	$^{\mathrm{C}}$
TedRR_2211	$(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	Č
TedRR_2222	$(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}s_R)$	Č
TedRR_2233	$(ar{\mu}_L\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}b_R)$	Č
TedRR_3311	$(ar{ au}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}d_R)$	$^{\circ}$ C
TedRR_3322	$(\bar{ au}_L\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}s_R) \ (ar{ au}_L\sigma^{\mu u} au_R)$	$\overset{\circ}{\mathrm{C}}$
TedRR_3333	$(\bar{ au}_L\sigma^{\mu u} au_R)(\bar{b}_L\sigma_{\mu u}b_R) \ (\bar{b}_L\sigma^{\mu u}b_R)$	$\overset{\circ}{\mathrm{C}}$
S1uuRR_1111	$(ar{u}_L u_R)(ar{u}_L u_R)$	$\overset{\circ}{\mathrm{C}}$
S1uuRR_1122	$(\bar{u}_L u_R)(\bar{c}_L c_R)$	$\overset{\circ}{\mathrm{C}}$
S1uuRR_1221	$(\bar{u}_L u_R)(\bar{c}_L e_R) = (\bar{u}_L c_R)(\bar{c}_L u_R)$	$\overset{\circ}{\mathrm{C}}$
S1uuRR_2222	$(\bar{c}_L c_R)(\bar{c}_L c_R)$	$\overset{\circ}{\mathrm{C}}$
S8uuRR_1111	$(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$	$\overset{\circ}{\mathrm{C}}$
S8uuRR_1122	$(\bar{u}_L T^A u_R)(\bar{c}_L T^A c_R)$	Č
S8uuRR_1221	$(ar{u}_L T^A c_R) (ar{c}_L T^A u_R)$	$\overset{\circ}{\mathrm{C}}$
S8uuRR_2222	$(ar{c}_L T^A c_R)(ar{c}_L T^A c_R)$	Č
S1udRR_1111	$(\bar{u}_L u_R)(\bar{d}_L d_R)$	$\overset{\circ}{\mathrm{C}}$
S1udRR_1122	$(\bar{u}_L u_R)(\bar{u}_L u_R)  (\bar{u}_L u_R)(\bar{s}_L s_R)$	$\overset{\circ}{\mathrm{C}}$
S1udRR_1133	$(\bar{u}_L u_R)(\bar{b}_L b_R)$	$\overset{\circ}{\mathrm{C}}$
S1udRR_2211	$egin{array}{l} (ar{c}_L a_R) (ar{c}_L b_R) \ (ar{c}_L c_R) (ar{d}_L d_R) \end{array}$	C
S1udRR_2221	$(ar{c}_L c_R)(ar{a}_L a_R) \ (ar{c}_L c_R)(ar{s}_L s_R)$	C
S1udRR_2222 S1udRR_2233	$egin{array}{l} (ar{c}_L c_R) (ar{s}_L s_R) \ (ar{c}_L c_R) (ar{b}_L b_R) \end{array}$	C
S8udRR_1111	$egin{aligned} (c_L c_R) (o_L o_R) \ (ar{u}_L T^A u_R) (ar{d}_L T^A d_R) \end{aligned}$	C
POURUV_1111	$(a_L I  u_R)(a_L I  u_R)$	C

WC name	Operator	Type
S8udRR_1122	$(\bar{u}_L T^A u_R)(\bar{s}_L T^A s_R)$	C
S8udRR_1133	$(\bar{u}_L T^A u_R)(\bar{b}_L T^A b_R)$	$\mathbf{C}$
S8udRR_2211	$(\bar{c}_L T^A c_R)(\bar{d}_L T^A d_R)$	$\mathbf{C}$
S8udRR_2222	$(\bar{c}_L T^A c_R)(\bar{s}_L T^A s_R)$	$^{\mathrm{C}}$
S8udRR_2233	$(ar{c}_L T^A c_R) (ar{b}_L T^A b_R)$	$^{\mathrm{C}}$
S1ddRR_1111	$(ar{d}_L d_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
S1ddRR_1122	$(ar{d}_L d_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
S1ddRR_1133	$(ar{d}_L d_R)(ar{b}_L b_R)$	C
S1ddRR_1221	$(ar{d}_L s_R)(ar{s}_L d_R)$	$^{\mathrm{C}}$
S1ddRR_1331	$(ar{d}_L b_R)(ar{b}_L d_R)$	$^{\mathrm{C}}$
S1ddRR_2222	$(ar{s}_L s_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
S1ddRR_2233	$(ar{s}_L s_R)(ar{b}_L b_R)$	$^{\mathrm{C}}$
S1ddRR_2332	$(ar{s}_L b_R)(ar{b}_L s_R)$	$\mathbf{C}$
S1ddRR_3333	$(ar{b}_L b_R)(ar{b}_L b_R)$	$\mathbf{C}$
S8ddRR_1111	$(ar{d}_L T^A d_R) (ar{d}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_1122	$(\bar{d}_L T^A d_R)(\bar{s}_L T^A s_R)$	$^{\mathrm{C}}$
S8ddRR_1133	$(ar{d}_L T^A d_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_1221	$(ar{d}_L T^A s_R) (ar{s}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_1331	$(ar{d}_L T^A b_R) (ar{b}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_2222	$(ar{s}_L T^A s_R) (ar{s}_L T^A s_R)$	$\mathbf{C}$
S8ddRR_2233	$(ar{s}_L T^A s_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_2332	$(ar{s}_L T^A b_R) (ar{b}_L T^A s_R)$	$\mathbf{C}$
S8ddRR_3333	$(b_L T^A b_R)(b_L T^A b_R)$	$\mathbf{C}$
S1udduRR_1111	$(ar{u}_L d_R)(ar{d}_L u_R)$	$\mathbf{C}$
S1udduRR_1221	$(\bar{u}_L s_R)(\bar{s}_L u_R)$	$\mathbf{C}$
S1udduRR_1331	$(ar{u}_L b_R)(b_{\! L} u_R)$	$\mathbf{C}$
S1udduRR_2112	$(ar{c}_L d_R)(ar{d}_L c_R)$	$\mathbf{C}$
S1udduRR_2222	$(ar{c}_L s_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
S1udduRR_2332	$(ar{c}_L b_R)(b_L c_{R})$	$^{\mathrm{C}}$
S8udduRR_1111	$(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_1221	$(\bar{u}_L T^A s_R)(\bar{s}_L T^A u_R)$	$^{\mathrm{C}}$
S8udduRR_1331	$(\bar{u}_L T^A b_R)(\bar{b}_L T^A u_R)$	$^{\mathrm{C}}$
S8udduRR_2112	$(\bar{c}_L T^A d_R)(\bar{d}_L T^A c_R)$	$^{\mathrm{C}}$
S8udduRR_2222	$(ar{c}_L T^A s_R) (ar{s}_L T^A c_R)$	$^{\mathrm{C}}$
S8udduRR_2332	$(\bar{c}_L T^A b_R)(\bar{b}_L T^A c_R)$	С

### ubenu

WC name	Operator	Type
VnueduLL_1131	$(\bar{ u}_{eL}\gamma^{\mu}e_L)(\bar{b}_L\gamma_{\mu}u_L)$	C
VnueduLR_1131	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{b}_R\gamma_{\mu}u_R)$	$\mathbf{C}$

WC name	Operator	Type
SnueduRL_1131	$(\bar{ u}_{eL}e_R)(\bar{b}_Ru_L)$	C
SnueduRR_1131	$(ar{ u}_{eL}e_R)(ar{b}_Lu_R)$	$\mathbf{C}$
TnueduRR_1131	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
VnueduLL_2131	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{b}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2131	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{b}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_2131	$(ar{ u}_{\mu L}e_R)(ar{b}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_2131	$(ar{ u}_{\mu L} e_R)(ar{b}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_2131	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{b}_L\sigma_{\mu  u}u_R)$	$^{\mathrm{C}}$
VnueduLL_3131	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{b}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_3131	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{b}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_3131	$(ar{ u}_{ au L} e_R) (ar{b}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_3131	$(ar{ u}_{ au L} e_R) (ar{b}_L u_R)$	$\mathbf{C}$
TnueduRR_3131	$(\bar{\nu}_{\tau L} \sigma^{\mu \nu} e_R) (\bar{b}_L \sigma_{\mu \nu} u_R)$	С

### ${\tt ubmunu}$

WC name	Operator	Type
VnueduLL_1231	$(ar{ u}_{eL}\gamma^{\mu}\mu_L)(ar{b}_L\gamma_{\mu}u_L)$	C
VnueduLR_1231	$(\bar{ u}_{eL}\gamma^{\mu}\mu_{L})(\bar{b}_{R}\gamma_{\mu}u_{R})$	$^{\mathrm{C}}$
SnueduRL_1231	$(ar{ u}_{eL}\mu_R)(ar{b}_Ru_L)$	C
SnueduRR_1231	$(ar{ u}_{eL}\mu_R)(ar{b}_L u_R)$	C
TnueduRR_1231	$(ar{ u}_{eL}\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
VnueduLL_2231	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{b}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2231	$(\bar{ u}_{\mu L} \gamma^{\mu} \mu_L) (\bar{b}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_2231	$(ar{ u}_{\mu L}\mu_R)(ar{b}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_2231	$(ar{ u}_{\mu L}\mu_R)(ar{b}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_2231	$(ar u_{\mu L}\sigma^{\mu  u}\mu_R)(ar b_L\sigma_{\mu  u}u_R)$	$^{\mathrm{C}}$
VnueduLL_3231	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{b}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_3231	$(\bar{\nu}_{\tau L} \gamma^{\mu} \mu_L) (\bar{b}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_3231	$(ar{ u}_{ au L} \mu_R)(ar{b}_R u_L)$	C
SnueduRR_3231	$(ar u_{ au L}\mu_R)(ar b_L u_R)$	C
TnueduRR_3231	$(ar{ u}_{ au L} \sigma^{\mu u} \mu_R) (ar{b}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$

## ubtaunu

WC name	Operator	Type
VnueduLL_1331	$(\bar{ u}_{eL}\gamma^{\mu} au_L)(\bar{b}_L\gamma_{\mu}u_L)$	C
VnueduLR_1331	$(ar{ u}_{eL}\gamma^{\mu} au_{L})(ar{b}_{R}\gamma_{\mu}u_{R})$	C
SnueduRL_1331	$(ar{ u}_{eL} au_R)(ar{b}_Ru_L)$	С

WC name	Operator	Type
SnueduRR_1331	$(ar{ u}_{eL} au_R)(ar{b}_Lu_R)$	C
TnueduRR_1331	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}u_R)$	$\mathbf{C}$
VnueduLL_2331	$(ar u_{\mu L} \gamma^\mu  au_L) (ar b_L \gamma_\mu u_L)$	$\mathbf{C}$
VnueduLR_2331	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{b}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_2331	$(ar{ u}_{\mu L} au_R)(ar{b}_R u_L)$	$\mathbf{C}$
SnueduRR_2331	$(ar{ u}_{\mu L} au_R)(ar{b}_Lu_R)$	$\mathbf{C}$
TnueduRR_2331	$(ar u_{\mu L}\sigma^{\mu  u} au_R)(ar b_L\sigma_{\mu  u}u_R)$	$\mathbf{C}$
VnueduLL_3331	$(ar u_{ au L} \gamma^\mu  au_L) (ar b_L \gamma_\mu u_L)$	$\mathbf{C}$
VnueduLR_3331	$(\bar{ u}_{\tau L} \gamma^{\mu} \tau_L) (\bar{b}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_3331	$(ar{ u}_{ au L} au_R)(ar{b}_Ru_L)$	$\mathbf{C}$
SnueduRR_3331	$(ar{ u}_{ au L} au_R)(ar{b}_Lu_R)$	$\mathbf{C}$
TnueduRR_3331	$(ar u_{ au L}\sigma^{\mu u} au_R)(ar b_L\sigma_{\mu u}u_R)$	$\mathbf{C}$

## cbenu

WC name	Operator	Type
VnueduLL_1132	$(\bar{\nu}_{eL}\gamma^{\mu}e_L)(\bar{b}_L\gamma_{\mu}c_L)$	C
VnueduLR_1132	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{b}_R\gamma_{\mu}c_R)$	$\mathbf{C}$
SnueduRL_1132	$(ar{ u}_{eL}e_R)(ar{b}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1132	$(ar{ u}_{eL}e_R)(ar{b}_Lc_R)$	$^{\mathrm{C}}$
TnueduRR_1132	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}c_R)$	C
VnueduLL_2132	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{b}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_2132	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{b}_R \gamma_{\mu} c_R)$	C
SnueduRL_2132	$(ar{ u}_{\mu L} e_R) (ar{b}_R c_L)$	$^{\mathrm{C}}$
SnueduRR_2132	$(ar{ u}_{\mu L}e_R)(ar{b}_Lc_R)$	$^{\mathrm{C}}$
TnueduRR_2132	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{b}_L\sigma_{\mu  u}c_R)$	$^{\mathrm{C}}$
VnueduLL_3132	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{b}_L \gamma_{\mu} c_L)$	C
VnueduLR_3132	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{b}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
SnueduRL_3132	$(ar{ u}_{ au L}e_R)(ar{b}_Rc_L)$	$\mathbf{C}$
SnueduRR_3132	$(ar{ u}_{ au L}e_R)(ar{b}_Lc_R)$	$\mathbf{C}$
TnueduRR_3132	$(ar{ u}_{ au L} \sigma^{\mu  u} e_R) (ar{b}_L \sigma_{\mu  u} c_R)$	$^{\mathrm{C}}$

### cbmunu

WC name	Operator	Type
VnueduLL_1232	$(ar{ u}_{eL}\gamma^{\mu}\mu_{L})(ar{b}_{L}\gamma_{\mu}c_{L})$	C
VnueduLR_1232	$(ar{ u}_{eL}\gamma^{\mu}\mu_{L})(ar{b}_{R}\gamma_{\mu}c_{R})$	C
SnueduRL_1232	$(ar{ u}_{eL}\mu_R)(ar{b}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1232	$(ar{ u}_{eL}\mu_R)(ar{b}_Lc_R)$	C

WC name	Operator	Type
TnueduRR_1232	$(\bar{\nu}_{eL}\sigma^{\mu\nu}\mu_R)(\bar{b}_L\sigma_{\mu\nu}c_R)$	C
VnueduLL_2232	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{b}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_2232	$(\bar{ u}_{\mu L} \gamma^{\mu} \mu_L) (\bar{b}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2232	$(ar{ u}_{\mu L}\mu_R)(ar{b}_R c_L)$	$^{\mathrm{C}}$
SnueduRR_2232	$(ar{ u}_{\mu L}\mu_R)(ar{b}_L c_R)$	$\mathbf{C}$
TnueduRR_2232	$(ar u_{\mu L}\sigma^{\mu  u}\mu_R)(ar b_L\sigma_{\mu  u}c_R)$	$\mathbf{C}$
VnueduLL_3232	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{b}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_3232	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{b}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_3232	$(ar{ u}_{ au L} \mu_R) (ar{b}_R c_L)$	$\mathbf{C}$
SnueduRR_3232	$(ar{ u}_{ au L} \mu_R) (ar{b}_L c_R)$	$\mathbf{C}$
TnueduRR_3232	$(ar u_{ au L}\sigma^{\mu u}\mu_R)(ar b_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$

## ${\tt cbtaunu}$

WC name	Operator	Type
VnueduLL_1332	$(\bar{\nu}_{eL}\gamma^{\mu} au_L)(\bar{b}_L\gamma_{\mu}c_L)$	С
VnueduLR_1332	$(ar{ u}_{eL}\gamma^{\mu} au_{L})(ar{b}_{R}\gamma_{\mu}c_{R})$	$\mathbf{C}$
SnueduRL_1332	$(ar{ u}_{eL} au_R)(ar{ar{b}}_Rc_L)$	$\mathbf{C}$
SnueduRR_1332	$(ar{ u}_{eL} au_R)(ar{b}_Lc_R)$	$\mathbf{C}$
TnueduRR_1332	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
VnueduLL_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{b}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{b}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2332	$(ar{ u}_{\mu L} au_R)(ar{b}_Rc_L)$	$\mathbf{C}$
SnueduRR_2332	$(ar{ u}_{\mu L} au_R)(ar{b}_L c_R)$	$\mathbf{C}$
TnueduRR_2332	$(ar{ u}_{\mu L}\sigma^{\mu  u} au_R)(ar{b}_L\sigma_{\mu  u}c_R)$	$\mathbf{C}$
VnueduLL_3332	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{b}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_3332	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{b}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_3332	$(ar{ u}_{ au L} au_R)(ar{b}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_3332	$(ar{ u}_{ au L} au_R)(ar{b}_L c_R)$	$\mathbf{C}$
TnueduRR_3332	$(ar u_{ au L} \sigma^{\mu u}  au_R) (ar b_L \sigma_{\mu u} c_R)$	C

### usenu

WC name	Operator	Type
VnueduLL_1121	$(\bar{\nu}_{eL}\gamma^{\mu}e_L)(\bar{s}_L\gamma_{\mu}u_L)$	$\mathbf{C}$
VnueduLR_1121	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{s}_R\gamma_{\mu}u_R)$	$\mathbf{C}$
SnueduRL_1121	$(ar{ u}_{eL}e_R)(ar{s}_Ru_L)$	$\mathbf{C}$
SnueduRR_1121	$(ar{ u}_{eL}e_R)(ar{s}_Lu_R)$	$\mathbf{C}$
TnueduRR_1121	$(\bar{ u}_{eL}\sigma^{\mu u}e_R)(\bar{s}_L\sigma_{\mu u}u_R)$	$\mathbf{C}$

WC name	Operator	Type
VnueduLL_2121	$(\bar{ u}_{\mu L} \gamma^{\mu} e_L) (\bar{s}_L \gamma_{\mu} u_L)$	C
VnueduLR_2121	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{s}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_2121	$(ar{ u}_{\mu L}e_R)(ar{s}_Ru_L)$	$\mathbf{C}$
SnueduRR_2121	$(\bar{ u}_{\mu L}e_R)(\bar{s}_Lu_R)$	$\mathbf{C}$
TnueduRR_2121	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{s}_L\sigma_{\mu  u}u_R)$	$\mathbf{C}$
VnueduLL_3121	$(\bar{ u}_{ au L} \gamma^{\mu} e_L) (\bar{s}_L \gamma_{\mu} u_L)$	$\mathbf{C}$
VnueduLR_3121	$(\bar{ u}_{ au L} \gamma^{\mu} e_L) (\bar{s}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_3121	$(ar{ u}_{ au L} e_R)(ar{s}_R u_L)$	$\mathbf{C}$
SnueduRR_3121	$(ar{ u}_{ au L} e_R)(ar{s}_L u_R)$	$\mathbf{C}$
TnueduRR_3121	$(\bar{\nu}_{\tau L} \sigma^{\mu \nu} e_R) (\bar{s}_L \sigma_{\mu \nu} u_R)$	$\mathbf{C}$

### usmunu

WC name	Operator	Type
VnueduLL_1221	$(\bar{\nu}_{eL}\gamma^{\mu}\mu_{L})(\bar{s}_{L}\gamma_{\mu}u_{L})$	C
VnueduLR_1221	$(\bar{ u}_{eL}\gamma^{\mu}\mu_L)(\bar{s}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
SnueduRL_1221	$(\bar{ u}_{eL}\mu_R)(\bar{s}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_1221	$(ar{ u}_{eL}\mu_R)(ar{s}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_1221	$(ar{ u}_{eL}\sigma^{\mu u}\mu_R)(ar{s}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
VnueduLL_2221	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{s}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2221	$(\bar{ u}_{\mu L} \gamma^{\mu} \mu_L) (\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_2221	$(ar{ u}_{\mu L}\mu_R)(ar{s}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_2221	$(ar{ u}_{\mu L}\mu_R)(ar{s}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_2221	$(\bar{ u}_{\mu L}\sigma^{\mu  u}\mu_R)(\bar{s}_L\sigma_{\mu  u}u_R)$	$^{\mathrm{C}}$
VnueduLL_3221	$(\bar{\nu}_{\tau L} \gamma^{\mu} \mu_L) (\bar{s}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_3221	$(\bar{ u}_{\tau L} \gamma^{\mu} \mu_L) (\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_3221	$(\bar{ u}_{ au L}\mu_R)(\bar{s}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_3221	$(\bar{ u}_{ au L}\mu_R)(\bar{s}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_3221	$(\bar{ u}_{ au L} \sigma^{\mu u} \mu_R) (\bar{s}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$

## ustaunu

WC name	Operator	Type
VnueduLL_1321	$(\bar{\nu}_{eL}\gamma^{\mu}\tau_L)(\bar{s}_L\gamma_{\mu}u_L)$	С
VnueduLR_1321	$(\bar{\nu}_{eL}\gamma^{\mu}\tau_L)(\bar{s}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
SnueduRL_1321	$(ar{ u}_{eL} au_R)(ar{s}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_1321	$(ar{ u}_{eL} au_R)(ar{s}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_1321	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
VnueduLL_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{s}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2321	$(\bar{ u}_{\mu L} \gamma^{\mu} \tau_L) (\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
SnueduRL_2321	$(\bar{\nu}_{\mu L}  au_R)(\bar{s}_R u_L)$	$\overline{C}$
SnueduRR_2321	$(ar{ u}_{\mu L} au_R)(ar{s}_L u_R)$	$\mathbf{C}$
TnueduRR_2321	$(ar{ u}_{\mu L}\sigma^{\mu  u} au_R)(ar{s}_L\sigma_{\mu  u}u_R)$	$\mathbf{C}$
VnueduLL_3321	$(\bar{ u}_{\tau L} \gamma^{\mu} \tau_L) (\bar{s}_L \gamma_{\mu} u_L)$	$\mathbf{C}$
VnueduLR_3321	$(\bar{ u}_{ au L} \gamma^{\mu}  au_L) (\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_3321	$(\bar{ u}_{ au L} au_R)(\bar{s}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_3321	$(ar{ u}_{ au L} au_R)(ar{s}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_3321	$(\bar{\nu}_{\tau L} \sigma^{\mu \nu} \tau_R) (\bar{s}_L \sigma_{\mu \nu} u_R)$	$^{\mathrm{C}}$

### csenu

WC name	Operator	Type
VnueduLL_1122	$(\bar{\nu}_{eL}\gamma^{\mu}e_L)(\bar{s}_L\gamma_{\mu}c_L)$	
VnueduLR_1122	$(\bar{ u}_{eL}\gamma^{\mu}e_L)(\bar{s}_R\gamma_{\mu}c_R)$	$^{\mathrm{C}}$
SnueduRL_1122	$(ar{ u}_{eL}e_R)(ar{s}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1122	$(ar{ u}_{eL}e_R)(ar{s}_Lc_R)$	$\mathbf{C}$
TnueduRR_1122	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
VnueduLL_2122	$(\bar{ u}_{\mu L} \gamma^{\mu} e_L)(\bar{s}_L \gamma_{\mu} c_L)$	C
VnueduLR_2122	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{s}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2122	$(ar{ u}_{\mu L}e_R)(ar{s}_Rc_L)$	$\mathbf{C}$
SnueduRR_2122	$(ar{ u}_{\mu L}e_R)(ar{s}_Lc_R)$	$\mathbf{C}$
TnueduRR_2122	$(\bar{ u}_{\mu L}\sigma^{\mu  u}e_R)(\bar{s}_L\sigma_{\mu  u}c_R)$	$\mathbf{C}$
VnueduLL_3122	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{s}_L \gamma_{\mu} c_L)$	C
VnueduLR_3122	$(\bar{ u}_{ au L} \gamma^{\mu} e_L) (\bar{s}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_3122	$(ar{ u}_{ au L} e_R)(ar{s}_R c_L)$	$\mathbf{C}$
SnueduRR_3122	$(ar{ u}_{ au L} e_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
TnueduRR_3122	$(ar{ u}_{ au L} \sigma^{\mu  u} e_R) (ar{s}_L \sigma_{\mu  u} c_R)$	$^{\mathrm{C}}$

## csmunu

WC name	Operator	Type
VnueduLL_1222	$(\bar{ u}_{eL}\gamma^{\mu}\mu_{L})(\bar{s}_{L}\gamma_{\mu}c_{L})$	$\mathbf{C}$
VnueduLR_1222	$(ar{ u}_{eL}\gamma^{\mu}\mu_{L})(ar{s}_{R}\gamma_{\mu}c_{R})$	$\mathbf{C}$
SnueduRL_1222	$(ar{ u}_{eL}\mu_R)(ar{s}_Rc_L)$	$\mathbf{C}$
SnueduRR_1222	$(ar{ u}_{eL}\mu_R)(ar{s}_Lc_R)$	C
TnueduRR_1222	$(\bar{\nu}_{eL}\sigma^{\mu\nu}\mu_R)(\bar{s}_L\sigma_{\mu\nu}c_R)$	$^{\mathrm{C}}$
VnueduLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{s}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_2222	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{s}_R \gamma_{\mu} c_R)$	C
SnueduRL_2222	$(ar{ u}_{\mu L}\mu_R)(ar{s}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_2222	$(ar{ u}_{\mu L}\mu_R)(ar{s}_L c_R)$	$\mathbf{C}$

WC name	Operator	Type
TnueduRR_2222	$(\bar{\nu}_{\mu L} \sigma^{\mu \nu} \mu_R) (\bar{s}_L \sigma_{\mu \nu} c_R)$	$\overline{C}$
VnueduLL_3222	$(\bar{ u}_{ au L} \gamma^{\mu} \mu_L) (\bar{s}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_3222	$(\bar{ u}_{\tau L} \gamma^{\mu} \mu_L) (\bar{s}_R \gamma_{\mu} c_R)$	C
SnueduRL_3222	$(ar{ u}_{ au L} \mu_R)(ar{s}_R c_L)$	$\mathbf{C}$
SnueduRR_3222	$(ar{ u}_{ au L} \mu_R)(ar{s}_L c_R)$	C
TnueduRR_3222	$(\bar{ u}_{ au L} \sigma^{\mu u} \mu_R) (\bar{s}_L \sigma_{\mu u} c_R)$	C

## ${\tt cstaunu}$

WC name	Operator	Type
VnueduLL_1322	$(\bar{\nu}_{eL}\gamma^{\mu} au_L)(\bar{s}_L\gamma_{\mu}c_L)$	C
VnueduLR_1322	$(ar{ u}_{eL}\gamma^{\mu} au_L)(ar{s}_R\gamma_{\mu}c_R)$	$^{\mathrm{C}}$
SnueduRL_1322	$(ar{ u}_{eL} au_R)(ar{s}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1322	$(ar{ u}_{eL} au_R)(ar{s}_Lc_R)$	$^{\mathrm{C}}$
TnueduRR_1322	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
VnueduLL_2322	$(\bar{ u}_{\mu L} \gamma^{\mu}  au_L) (\bar{s}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_2322	$(ar u_{\mu L} \gamma^\mu  au_L) (ar s_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
SnueduRL_2322	$(ar{ u}_{\mu L} au_R)(ar{s}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_2322	$(ar{ u}_{\mu L} au_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
TnueduRR_2322	$(ar{ u}_{\mu L}\sigma^{\mu  u} au_R)(ar{s}_L\sigma_{\mu  u}c_R)$	$^{\mathrm{C}}$
VnueduLL_3322	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{s}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_3322	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{s}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
SnueduRL_3322	$(ar{ u}_{ au L} au_R)(ar{s}_R c_L)$	$^{\mathrm{C}}$
SnueduRR_3322	$(ar{ u}_{ au L} au_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
TnueduRR_3322	$(ar u_{ au L}\sigma^{\mu u} au_R)(ar s_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$

## udenu

WC name	Operator	Type
VnueduLL_1111	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{d}_L\gamma_{\mu}u_L)$	С
VnueduLR_1111	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{d}_R\gamma_{\mu}u_R)$	$\mathbf{C}$
SnueduRL_1111	$(ar{ u}_{eL}e_R)(ar{d}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_1111	$(ar{ u}_{eL}e_R)(ar{d}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_1111	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
VnueduLL_2111	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{d}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2111	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{d}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_2111	$(ar{ u}_{\mu L}e_R)(ar{d}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_2111	$(ar{ u}_{\mu L}e_R)(ar{d}_Lu_R)$	$\mathbf{C}$
TnueduRR_2111	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{d}_L\sigma_{\mu  u}u_R)$	$\mathbf{C}$
VnueduLL_3111	$(ar u_{ au L} \gamma^\mu e_L) (ar d_L \gamma_\mu u_L)$	$\mathbf{C}$

WC name	Operator	Type
VnueduLR_3111	$(\bar{\nu}_{\tau L}\gamma^{\mu}e_L)(\bar{d}_R\gamma_{\mu}u_R)$	C
SnueduRL_3111	$(ar{ u}_{ au L} e_R) (ar{d}_R u_L)$	$\mathbf{C}$
SnueduRR_3111	$(ar{ u}_{ au L} e_R) (ar{d}_L u_R)$	$\mathbf{C}$
TnueduRR_3111	$(ar{ u}_{ au L} \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} u_R)$	$^{\mathrm{C}}$

## ${\tt udmunu}$

WC name	Operator	Type
VnueduLL_1211	$(ar{ u}_{eL}\gamma^{\mu}\mu_{L})(ar{d}_{L}\gamma_{\mu}u_{L})$	C
VnueduLR_1211	$(\bar{ u}_{eL}\gamma^{\mu}\mu_{L})(\bar{d}_{R}\gamma_{\mu}u_{R})$	$\mathbf{C}$
SnueduRL_1211	$(ar{ u}_{eL}\mu_R)(ar{d}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_1211	$(ar{ u}_{eL}\mu_R)(ar{d}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_1211	$(ar{ u}_{eL}\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
VnueduLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{d}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{d}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_2211	$(ar{ u}_{\mu L}\mu_R)(ar{d}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_2211	$(ar{ u}_{\mu L}\mu_R)(ar{d}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_2211	$(\bar{ u}_{\mu L}\sigma^{\mu  u}\mu_R)(\bar{d}_L\sigma_{\mu  u}u_R)$	$^{\mathrm{C}}$
VnueduLL_3211	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{d}_L \gamma_{\mu} u_L)$	$\mathbf{C}$
VnueduLR_3211	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{d}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_3211	$(ar{ u}_{ au L} \mu_R) (ar{d}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_3211	$(ar{ u}_{ au L}\mu_R)(ar{d}_L u_R)$	$\mathbf{C}$
TnueduRR_3211	$(ar u_{ au L} \sigma^{\mu u} \mu_R) (ar d_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$

## ${\tt udtaunu}$

WC name	Operator	Type
VnueduLL_1311	$(ar{ u}_{eL}\gamma^{\mu} au_{L})(ar{d}_{L}\gamma_{\mu}u_{L})$	C
VnueduLR_1311	$(ar{ u}_{eL}\gamma^{\mu} au_L)(ar{d}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
SnueduRL_1311	$(ar{ u}_{eL} au_R)(ar{d}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_1311	$(ar{ u}_{eL} au_R)(ar{d}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_1311	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}u_R)$	$^{\mathrm{C}}$
VnueduLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_2311	$(ar{ u}_{\mu L} au_R)(ar{d}_Ru_L)$	C
SnueduRR_2311	$(ar{ u}_{\mu L} au_R)(ar{d}_Lu_R)$	C
TnueduRR_2311	$(ar{ u}_{\mu L}\sigma^{\mu  u} au_R)(ar{d}_L\sigma_{\mu  u}u_R)$	$^{\mathrm{C}}$
VnueduLL_3311	$(ar u_{ au L} \gamma^\mu  au_L) (ar d_L \gamma_\mu u_L)$	C
VnueduLR_3311	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} u_R)$	$\mathbf{C}$

WC name	Operator	Type
SnueduRL_3311	$(ar u_{ au L} au_R)(ar d_R u_L)$	C
SnueduRR_3311	$(ar u_{ au L} au_R)(ar d_L u_R)$	$^{\mathrm{C}}$
TnueduRR_3311	$(ar{ u}_{ au L} \sigma^{\mu u}  au_R) (ar{d}_L \sigma_{\mu u} u_R)$	$\mathbf{C}$

## cdenu

WC name	Operator	Туре
VnueduLL_1112	$(\bar{ u}_{eL}\gamma^{\mu}e_L)(\bar{d}_L\gamma_{\mu}c_L)$	$^{\mathrm{C}}$
VnueduLR_1112	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{d}_R\gamma_{\mu}c_R)$	$\mathbf{C}$
SnueduRL_1112	$(ar{ u}_{eL}e_R)(ar{d}_Rc_L)$	C
SnueduRR_1112	$(ar{ u}_{eL}e_R)(ar{d}_Lc_R)$	$\mathbf{C}$
TnueduRR_1112	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
VnueduLL_2112	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{d}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_2112	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{d}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2112	$(ar{ u}_{\mu L}e_R)(ar{d}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_2112	$(ar{ u}_{\mu L}e_R)(ar{d}_Lc_R)$	$\mathbf{C}$
TnueduRR_2112	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{d}_L\sigma_{\mu  u}c_R)$	$^{\mathrm{C}}$
VnueduLL_3112	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{d}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_3112	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{d}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
SnueduRL_3112	$(ar{ u}_{ au L} e_R) (ar{d}_R c_L)$	$^{\mathrm{C}}$
SnueduRR_3112	$(ar{ u}_{ au L} e_R) (ar{d}_L c_R)$	C
TnueduRR_3112	$(ar{ u}_{ au L} \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} c_R)$	$^{\mathrm{C}}$

## ${\tt cdmunu}$

WC name	Operator	Type
VnueduLL_1212	$(\bar{\nu}_{eL}\gamma^{\mu}\mu_L)(\bar{d}_L\gamma_{\mu}c_L)$	С
VnueduLR_1212	$(\bar{ u}_{eL}\gamma^{\mu}\mu_{L})(\bar{d}_{R}\gamma_{\mu}c_{R})$	$^{\mathrm{C}}$
SnueduRL_1212	$(ar{ u}_{eL}\mu_R)(ar{d}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1212	$(ar{ u}_{eL}\mu_R)(ar{d}_Lc_R)$	$\mathbf{C}$
TnueduRR_1212	$(ar u_{eL}\sigma^{\mu u}\mu_R)(ar d_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
VnueduLL_2212	$(ar u_{\mu L} \gamma^\mu \mu_L) (ar d_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
VnueduLR_2212	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{d}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2212	$(ar{ u}_{\mu L}\mu_R)(ar{d}_R c_L)$	$\mathbf{C}$
SnueduRR_2212	$(ar u_{\mu L}\mu_R)(ar d_L c_R)$	$\mathbf{C}$
TnueduRR_2212	$(ar{ u}_{\mu L}\sigma^{\mu  u}\mu_R)(ar{d}_L\sigma_{\mu  u}c_R)$	$\mathbf{C}$
VnueduLL_3212	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{d}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_3212	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{d}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_3212	$(ar{ u}_{ au L} \mu_R) (ar{d}_R c_L)$	$\mathbf{C}$

WC name	Operator	Type
SnueduRR_3212	$(ar{ u}_{ au L}\mu_R)(ar{d}_L c_R)$	C
TnueduRR_3212	$(ar{ u}_{ au L} \sigma^{\mu u} \mu_R) (ar{d}_L \sigma_{\mu u} c_R)$	$^{\mathrm{C}}$

### cdtaunu

WC name	Operator	Type
VnueduLL_1312	$(ar{ u}_{eL}\gamma^{\mu} au_L)(ar{d}_L\gamma_{\mu}c_L)$	C
VnueduLR_1312	$(ar{ u}_{eL}\gamma^{\mu} au_{L})(ar{d}_{R}\gamma_{\mu}c_{R})$	$^{\mathrm{C}}$
SnueduRL_1312	$(ar{ u}_{eL} au_R)(ar{d}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1312	$(ar{ u}_{eL} au_R)(ar{d}_Lc_R)$	$^{\mathrm{C}}$
TnueduRR_1312	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
VnueduLL_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
SnueduRL_2312	$(ar{ u}_{\mu L} au_R)(ar{d}_R c_L)$	$^{\mathrm{C}}$
SnueduRR_2312	$(ar{ u}_{\mu L} au_R)(ar{d}_L c_R)$	$^{\mathrm{C}}$
TnueduRR_2312	$(ar{ u}_{\mu L}\sigma^{\mu  u} au_R)(ar{d}_L\sigma_{\mu  u}c_R)$	$^{\mathrm{C}}$
VnueduLL_3312	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{d}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_3312	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
SnueduRL_3312	$(ar{ u}_{ au L} au_R)(ar{d}_R c_L)$	$^{\mathrm{C}}$
SnueduRR_3312	$(ar{ u}_{ au L} au_R)(ar{d}_L c_R)$	$\mathbf{C}$
TnueduRR_3312	$(ar u_{ au L}\sigma^{\mu u} au_R)(ar d_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$

### sbnunu

WC name	Operator	Type
VnudLL_1123	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{s}_{L}\gamma_{\mu}b_{L})$	$\overline{C}$
VnudLL_2223	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{s}_L \gamma_{\mu} b_L)$	$\mathbf{C}$
VnudLL_3323	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} b_L)$	$\mathbf{C}$
VnudLR_1123	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{s}_R\gamma_{\mu}b_R)$	$\mathbf{C}$
VnudLR_2223	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{s}_R \gamma_{\mu} b_R)$	$\mathbf{C}$
VnudLR_3323	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{s}_R \gamma_{\mu} b_R)$	$\mathbf{C}$
VnudLL_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{L}\gamma_{\mu}s_{L})$	$\mathbf{C}$
VnudLR_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{R}\gamma_{\mu}s_{R})$	$\mathbf{C}$
VnudLL_1332	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{L}\gamma_{\mu}s_{L})$	$^{\mathrm{C}}$
VnudLR_1332	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{R}\gamma_{\mu}s_{R})$	$\mathbf{C}$
VnudLL_1223	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{L}\gamma_{\mu}b_{L})$	$\mathbf{C}$
VnudLR_1223	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{R}\gamma_{\mu}b_{R})$	$^{\mathrm{C}}$
VnudLL_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_L \gamma_{\mu} s_L)$	$\mathbf{C}$
VnudLR_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_R \gamma_{\mu} s_R)$	$\mathbf{C}$

WC name	Operator	Type
VnudLL_1323	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{L}\gamma_{\mu}b_{L})$	C
VnudLR_1323	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{R}\gamma_{\mu}b_{R})$	$^{\mathrm{C}}$
VnudLL_2323	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} b_L)$	$^{\mathrm{C}}$
VnudLR_2323	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_R \gamma_{\mu} b_R)$	$\mathbf{C}$

## ${\tt dbnunu}$

WC name	Operator	Type
VnudLL_1113	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{L}\gamma_{\mu}b_{L})$	C
VnudLL_2213	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_L \gamma_{\mu} b_L)$	$^{\mathrm{C}}$
VnudLL_3313	$(ar u_{ au L} \gamma^\mu  u_{ au L}) (ar d_L \gamma_\mu b_L)$	$\mathbf{C}$
VnudLR_1113	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{R}\gamma_{\mu}b_{R})$	$\mathbf{C}$
VnudLR_2213	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_R \gamma_{\mu} b_R)$	$\mathbf{C}$
VnudLR_3313	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} b_R)$	$\mathbf{C}$
VnudLL_1231	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{L}\gamma_{\mu}d_{L})$	$\mathbf{C}$
VnudLR_1231	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\underline{b}}_{R}\gamma_{\mu}d_{R})$	С
VnudLL_1331	$(ar u_{eL}\gamma^\mu u_{ au L})(ar u_L\gamma_\mu d_L)$	С
VnudLR_1331	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{R}\gamma_{\mu}d_{R})$	С
VnudLL_1213	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_{L}\gamma_{\mu}b_{L})$	С
VnudLR_1213	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\underline{d}_R\gamma_{\mu}b_R)$	С
VnudLL_2331	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\underline{b}}_L \gamma_{\mu} d_L)$	С
VnudLR_2331	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_R \gamma_{\mu} d_R)$	С
VnudLL_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{L}\gamma_{\mu}b_{L})$	С
VnudLR_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{R}\gamma_{\mu}b_{R})$	С
VnudLL_2313	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} b_L)$	С
VnudLR_2313	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} b_R)$	С

## sdnunu

WC name	Operator	Type
VnudLL_1112	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{L}\gamma_{\mu}s_{L})$	C
VnudLL_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_L \dot{\gamma}_{\mu} s_L)$	C
VnudLL_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} s_L)$	C
VnudLR_1112	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{R}\gamma_{\mu}s_{R})$	$\mathbf{C}$
VnudLR_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_R \gamma_{\mu} s_R)$	C
VnudLR_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} s_R)$	C
VnudLL_1221	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{L}\gamma_{\mu}d_{L})$	$\mathbf{C}$
VnudLR_1221	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{R}\gamma_{\mu}d_{R})$	$\mathbf{C}$
VnudLL_1321	$(\bar{ u}_{eL}\gamma^{\mu} u_{\tau L})(\bar{s}_{L}\gamma_{\mu}d_{L})$	$\mathbf{C}$

WC name	Operator	Type
VnudLR_1321	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{s}_{R}\gamma_{\mu}d_{R})$	C
VnudLL_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_{L}\gamma_{\mu}s_{L})$	$^{\mathrm{C}}$
VnudLR_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_R\gamma_{\mu}s_R)$	$^{\mathrm{C}}$
VnudLL_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} d_L)$	$^{\mathrm{C}}$
VnudLR_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_R \gamma_{\mu} d_R)$	$\mathbf{C}$
VnudLL_1312	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{L}\gamma_{\mu}s_{L})$	$^{\mathrm{C}}$
VnudLR_1312	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_R\gamma_{\mu}s_R)$	$^{\mathrm{C}}$
VnudLL_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} s_L)$	$^{\mathrm{C}}$
VnudLR_2312	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{d}_R \gamma_{\mu} s_R)$	C

## cununu

WC name	Operator	Type
VnuuLL_1112	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{u}_{L}\gamma_{\mu}c_{L})$	C
VnuuLL_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{u}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnuuLL_3312	$(\bar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (\bar{u}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnuuLR_1112	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{u}_{R}\gamma_{\mu}c_{R})$	$^{\mathrm{C}}$
VnuuLR_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{u}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
VnuuLR_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{u}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
VnuuLL_1221	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{c}_{L}\gamma_{\mu}u_{L})$	$^{\mathrm{C}}$
VnuuLR_1221	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{c}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
VnuuLL_1321	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{c}_{L}\gamma_{\mu}u_{L})$	$^{\mathrm{C}}$
VnuuLR_1321	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{c}_{R}\gamma_{\mu}u_{R})$	$^{\mathrm{C}}$
VnuuLL_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{u}_{L}\gamma_{\mu}c_{L})$	$^{\mathrm{C}}$
VnuuLR_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{u}_{R}\gamma_{\mu}c_{R})$	$^{\mathrm{C}}$
VnuuLL_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{c}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnuuLR_2321	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{c}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
VnuuLL_1312	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{u}_{L}\gamma_{\mu}c_{L})$	$^{\mathrm{C}}$
VnuuLR_1312	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{u}_{R}\gamma_{\mu}c_{R})$	$^{\mathrm{C}}$
VnuuLL_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{u}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnuuLR_2312	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\tau L}) (\bar{u}_R \gamma_{\mu} c_R)$	C

## ffnunu

WC name	Operator	Type
VnueLL_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{L}\gamma_{\mu}e_{L})$	R
VnueLL_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\mu}_{L}\gamma_{\mu}\mu_{L})$	R
VnueLL_1133	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ au}_{L}\gamma_{\mu}^{} au_{L})$	R
VnueLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_L \gamma_{\mu} e_L)$	R
VnueLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{\mu}_L \gamma_{\mu} \mu_L)$	R

$\begin{array}{llllllllllllllllllllllllllllllllllll$	WC name	Operator	Type
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLL_2233	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\mu L}) (\bar{\tau}_{L} \gamma_{\mu} \tau_{L})$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLL_3311	$(\bar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (\bar{e}_L \gamma_{\mu} e_L)$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLL_3322	$(\bar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (\bar{\mu}_{L} \gamma_{\mu} \mu_{L})$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLL_3333		R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnuuLL_1111	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{u}_{L}\gamma_{\mu}u_{L})$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnuuLL_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{c}_{L}\gamma_{\mu}c_{L})$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnuuLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{u}_L \gamma_{\mu} u_L)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnuuLL_2222		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	_		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnuuLL_3322	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{c}_L \gamma_{\mu} c_L)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_1111		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_1122		${ m R}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_1133	$(ar u_{eL}\gamma^\mu u_{eL})(ar b_L\gamma_\mu b_L)$	${ m R}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_L \gamma_{\mu} d_L)$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{s}_L \gamma_{\mu} s_L)$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_2233	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{b}_L \gamma_{\mu} b_L)$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_3311	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} d_L)$	${ m R}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_3322	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} s_L)$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnudLL_3333	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{b}_L \gamma_{\mu} b_L)$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLR_1111		R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLR_1122	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{\mu}_{R}\gamma_{\mu}\mu_{R})$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLR_1133	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ au}_{R}\gamma_{\mu} au_{R})$	R
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLR_2211		${ m R}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	VnueLR_2222		${ m R}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	_	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{ au}_R \gamma_{\mu}  au_R)$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	_		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	_		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<del>-</del>		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	_		
$\begin{array}{lll} \text{VnudLR\_2222} & (\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\mu L}) (\bar{s}_R \gamma_{\mu} s_R) & \text{R} \\ \text{VnudLR\_2233} & (\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\mu L}) (\bar{b}_R \gamma_{\mu} b_R) & \text{R} \\ \text{VnudLR\_3311} & (\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L}) (\bar{d}_R \gamma_{\mu} d_R) & \text{R} \\ \text{VnudLR\_3322} & (\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L}) (\bar{s}_R \gamma_{\mu} s_R) & \text{R} \end{array}$	_		
VnudLR_2233 $(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\mu L}) (\bar{b}_R \gamma_{\mu} b_R)$ R VnudLR_3311 $(\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L}) (\bar{d}_R \gamma_{\mu} d_R)$ R VnudLR_3322 $(\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L}) (\bar{\underline{s}}_R \gamma_{\mu} s_R)$ R	_		
VnudLR_3311 $(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{d}_{R}\gamma_{\mu}d_{R})$ R VnudLR_3322 $(\bar{\nu}_{\tau L}\gamma^{\mu}\nu_{\tau L})(\bar{\underline{s}}_{R}\gamma_{\mu}s_{R})$ R			
VnudLR_3322 $(\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L})(\bar{s}_R \gamma_{\mu} s_R)$ R	VnudLR_2233		R
	_		
VnudLR_3333 $(\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L}) (\bar{b}_R \gamma_{\mu} b_R)$ R	VnudLR_3322		
	VnudLR_3333	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (b_R \gamma_{\mu} b_R)$	R

WC name	Operator	Type
VnueLL_1211	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{e}_{L}\gamma_{\mu}e_{L})$	C
VnueLL_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{L}\gamma_{\mu}\mu_{L})$	$\mathbf{C}$
VnueLL_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	$\mathbf{C}$
VnuuLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{u}_{L}\gamma_{\mu}u_{L})$	$\mathbf{C}$
VnuuLL_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{c}_{L}\gamma_{\mu}c_{L})$	$\mathbf{C}$
VnudLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_{L}\gamma_{\mu}d_{L})$	$\mathbf{C}$
VnudLL_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{L}\gamma_{\mu}s_{L})$	$\mathbf{C}$
VnudLL_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{L}\gamma_{\mu}b_{L})$	$\mathbf{C}$
VnueLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu}e_{R})$	$\mathbf{C}$
VnueLR_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{R}\gamma_{\mu}\mu_{R})$	$\mathbf{C}$
VnueLR_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu} au_{R})$	$\mathbf{C}$
VnuuLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{u}_{R}\gamma_{\mu}u_{R})$	$\mathbf{C}$
VnuuLR_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{c}_{R}\gamma_{\mu}c_{R})$	$\mathbf{C}$
VnudLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_{R}\gamma_{\mu}d_{R})$	$\mathbf{C}$
VnudLR_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{R}\gamma_{\mu}s_{R})$	$\mathbf{C}$
VnudLR_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{R}\gamma_{\mu}b_{R})$	$\mathbf{C}$
VnueLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu}e_{L})$	$\mathbf{C}$
VnueLL_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu}\mu_{L})$	$\mathbf{C}$
VnueLL_1333	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu} u_{L})$	$\mathbf{C}$
VnuuLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{u}_{L}\gamma_{\mu}u_{L})$	$\mathbf{C}$
VnuuLL_1322	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{c}_{L}\gamma_{\mu}c_{L})$	$\mathbf{C}$
VnudLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{L}\gamma_{\mu}d_{L})$	$\mathbf{C}$
VnudLL_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{L}\gamma_{\mu}s_{L})$	$\mathbf{C}$
VnudLL_1333	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{L}\gamma_{\mu}b_{L})$	$\mathbf{C}$
VnueLR_1311	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{e}_{R}\gamma_{\mu}e_{R})$	$\mathbf{C}$
VnueLR_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu}\mu_{R})$	$\mathbf{C}$
VnueLR_1333	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{R}\gamma_{\mu} au_{R})$	$\mathbf{C}$
VnuuLR_1311	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{u}_{R}\gamma_{\mu}u_{R})$	$\mathbf{C}$
VnuuLR_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{c}_{R}\gamma_{\mu}c_{R})$	$\mathbf{C}$
VnudLR_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_R\gamma_{\mu}d_R)$	$\mathbf{C}$
VnudLR_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{R}\gamma_{\mu}s_{R})$	$\mathbf{C}$
VnudLR_1333	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{R}\gamma_{\mu}b_{R})$	$\mathbf{C}$
VnueLL_2311	$(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu}e_{L})$	$\mathbf{C}$
VnueLL_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_{L} \gamma_{\mu} \mu_{L})$	$\mathbf{C}$
VnueLL_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_{L} \gamma_{\mu}  u_{L})$	$\mathbf{C}$
VnuuLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{u}_{L} \gamma_{\mu} u_{L})$	$\mathbf{C}$
VnuuLL_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{c}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnudLL_2311	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{d}_{L} \gamma_{\mu} d_{L})$	$\mathbf{C}$
VnudLL_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} s_L)$	$\mathbf{C}$
VnudLL_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_{L} \gamma_{\mu} b_{L})$	$\mathbf{C}$
VnueLR_2311	$(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu}e_{R})$	$\mathbf{C}$
VnueLR_2322	$(ar{ u}_{\mu L}\gamma^{\mu} u_{ au L})(ar{\mu}_{R}\gamma_{\mu}\mu_{R})$	$\mathbf{C}$
VnueLR_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_{R}  u_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_{R}  u_{\mu L}  u_{R})$	$^{\mathrm{C}}$
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WC name	Operator	Type
VnuuLR_2311	$(\bar{\nu}_{\mu L}\gamma^{\mu}\nu_{\tau L})(\bar{u}_R\gamma_{\mu}u_R)$	C
VnuuLR_2322	$(\bar{\nu}_{\mu L} \gamma^{\mu} \nu_{\tau L}) (\bar{c}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
VnudLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} d_R)$	C
VnudLR_2322	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{s}_R \gamma_{\mu} s_R)$	$\mathbf{C}$
VnudLR_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_R \gamma_{\mu} b_R)$	$^{\mathrm{C}}$

## uddnu

WC name	Operator	Type
SuddLL_1111	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^{eta})(d_L^{\gamma T}C u_{eL})$	C
SuddLL_1112	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^{eta})(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_1113	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^{ar{eta}})(d_L^{ar{\gamma} T}C u_{ au L})$	$\mathbf{C}$
SdudRL_1111	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_1112	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_1113	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(d_L^{ar{\gamma} T}C u_{ au L})$	$\mathbf{C}$

### udsnu

WC name	Operator	Type
SuddLL_1121	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^{eta})(s_L^{\gamma T}C u_{eL})$	C
SuddLL_1122	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^{ar{eta}})(s_L^{ar{\gamma} T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_1123	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^{eta})(s_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SuddLL_1211	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^eta)(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SuddLL_1212	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^eta)(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_1213	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^eta)(d_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdudRL_1121	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(s_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_1122	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(s_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_1123	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(s_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdudRL_2111	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^{eta})(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_2112	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^{eta})(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_2113	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^{eta})(d_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdduRL_1211	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cs_R^eta)(u_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdduRL_1212	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cs_R^eta)(u_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdduRL_1213	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cs_R^eta)(u_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$

## udbnu

WC name	Operator	Type
SuddLL_1131	$\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cd_L^{\beta})(b_L^{\gamma T}C\nu_{eL})$	C
SuddLL_1132	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^{ar{eta}})(b_L^{ar{\gamma} T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_1133	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cd_L^eta)(b_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SuddLL_1311	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cb_L^eta)(d_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SuddLL_1312	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cb_L^{eta})(d_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_1313	$\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cb_L^{\beta})(d_L^{\gamma T}C\nu_{\tau L})$	$^{\mathrm{C}}$
SdudRL_1131	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^eta)(b_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_1132	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(b_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_1133	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{ar{eta}})(b_L^{ar{\gamma} T}C u_{ au L})$	$\mathbf{C}$
SdudRL_3111	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(d_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SdudRL_3112	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^{eta})(d_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_3113	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^{eta})(d_L^{\gamma T}C u_{ au L})$	$^{\mathrm{C}}$
SdduRL_1311	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cb_R^{eta})(u_L^{ar{\gamma} T}C u_{eL})$	$^{\mathrm{C}}$
SdduRL_1312	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cb_R^{eta})(u_L^{ar{\gamma} T}C u_{\mu L})$	$\mathbf{C}$
SdduRL_1313	$\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cb_R^{\beta})(u_L^{\gamma T}C\nu_{\tau L})$	$\mathbf{C}$

## ussnu

WC name	Operator	Type
SuddLL_1221	$\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cs_L^{\beta})(s_L^{\gamma T}C\nu_{eL})$	C
SuddLL_1222	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^eta)(s_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_1223	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^eta)(s_L^{\gamma T}C u_{ au L})$	$^{\mathrm{C}}$
SdudRL_2121	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(s_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SdudRL_2122	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(s_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_2123	$\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cu_R^{\beta})(s_L^{\gamma T}C\nu_{\tau L})$	C

### usbnu

WC name	Operator	Type
SuddLL_1231	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^eta)(b_L^{\gamma T}C u_{eL})$	C
SuddLL_1232	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^{\overline{eta}})(b_L^{\overline{\gamma} T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_1233	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cs_L^{eta})(b_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SuddLL_1321	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cb_L^eta)(s_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SuddLL_1322	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cb_L^eta)(s_{L-}^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_1323	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cb_L^eta)(s_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdudRL_2131	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(b_{L}^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_2132	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(b_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$

WC name	Operator	Type
SdudRL_2133	$\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cu_R^{\beta})(b_L^{\gamma T}C\nu_{\tau L})$	C
SdudRL_3121	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(s_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SdudRL_3122	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(s_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_3123	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(s_L^{\gamma T}C u_{ au L})$	$^{\mathrm{C}}$
SdduRL_2311	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cb_R^{eta})(u_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SdduRL_2312	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cb_R^{eta})(u_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdduRL_2313	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cb_R^{eta})(u_L^{\gamma T}C u_{ au L})$	C

## ${\tt ubbnu}$

WC name	Operator	Type
SuddLL_1331	$\epsilon_{\alpha\beta\gamma}(u_L^{\alpha T}Cb_L^{\beta})(b_L^{\gamma T}C\nu_{eL})$	C
SuddLL_1332	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cb_L^eta)(b_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_1333	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cb_L^eta)(b_L^{\gamma T}C u_{ au L})$	$^{\mathrm{C}}$
SdudRL_3131	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(b_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SdudRL_3132	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(b_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_3133	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(b_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$

## ${\tt cddnu}$

WC name	Operator	Type
SuddLL_2111	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{eta})(d_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SuddLL_2112	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{eta})(d_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_2113	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{eta})(d_L^{\gamma T}C u_{ au L})$	$^{\mathrm{C}}$
SdudRL_1211	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_1212	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_1213	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{eta})(d_L^{ar{\gamma} T}C u_{ au L})$	$\mathbf{C}$

## cdsnu

WC name	Operator	Type
SuddLL_2121	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{eta})(s_L^{\gamma T}C u_{eL})$	С
SuddLL_2122	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{eta})(s_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_2123	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{eta})(s_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SuddLL_2211	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{eta})(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SuddLL_2212	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{eta})(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$

WC name	Operator	Type
SuddLL_2213	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{eta})(d_L^{\gamma T}C u_{ au L})$	C
SdudRL_1221	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(s_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_1222	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(s_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_1223	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{ar{eta}})(s_L^{ar{\gamma} T}C u_{ au L})$	$\mathbf{C}$
SdudRL_2211	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_2212	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_2213	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdduRL_1221	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cs_R^eta)(c_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdduRL_1222	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cs_R^{eta})(c_L^{ar{\gamma} T}C u_{\mu L})$	$^{\mathrm{C}}$
SdduRL_1223	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cs_R^{eta})(c_L^{\gamma T}C u_{ au L})$	C

## ${\tt cdbnu}$

WC name	Operator	Type
SuddLL_2131	$\epsilon_{\alpha\beta\gamma}(c_L^{\alpha T}Cd_L^{\beta})(b_L^{\gamma T}C\nu_{eL})$	$\overline{\mathbf{C}}$
SuddLL_2132	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{ar{eta}})(b_L^{ar{\gamma} T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_2133	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cd_L^{eta})(b_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SuddLL_2311	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^{eta})(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SuddLL_2312	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^{eta})(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_2313	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^eta)(d_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdudRL_1231	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(b_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_1232	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(b_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_1233	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(b_{L}^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdudRL_3211	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_3212	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_3213	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdduRL_1321	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cb_R^eta)(c_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdduRL_1322	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cb_R^{eta})(c_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdduRL_1323	$\epsilon_{\alpha\beta\gamma}(d_R^{\alpha T}Cb_R^{\beta})(c_L^{\gamma T}C\nu_{\tau L})$	C

## cssnu

WC name	Operator	Type
SuddLL_2221	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{eta})(s_L^{\gamma T}C u_{eL})$	С
SuddLL_2222	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{ar{eta}})(s_L^{ar{\gamma} T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_2223	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{ar{eta}})(s_L^{ar{\gamma} T}C u_{ au L})$	$^{\mathrm{C}}$
SdudRL_2221	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{ar{eta}})(s_L^{ar{\gamma} T}C u_{eL})$	$^{\mathrm{C}}$

WC name	Operator	Type
SdudRL_2222	$\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cc_R^{\beta})(s_L^{\gamma T}C\nu_{\mu L})$	C
SdudRL_2223	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(s_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$

## ${\tt csbnu}$

WC name	Operator	Type
SuddLL_2231	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{eta})(b_L^{\gamma T}C u_{eL})$	C
SuddLL_2232	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{eta})(b_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_2233	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cs_L^{eta})(b_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SuddLL_2321	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^eta)(s_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SuddLL_2322	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^eta)(s_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SuddLL_2323	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^eta)(s_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdudRL_2231	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(b_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_2232	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(b_{L}^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_2233	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(b_{L}^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdudRL_3221	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(s_L^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdudRL_3222	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(s_L^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdudRL_3223	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{eta})(s_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$
SdduRL_2321	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cb_R^eta)(c_{L}^{\gamma T}C u_{eL})$	$\mathbf{C}$
SdduRL_2322	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cb_{R}^eta)(c_{L}^{\gamma T}C u_{\mu L})$	$\mathbf{C}$
SdduRL_2323	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cb_R^eta)(c_L^{\gamma T}C u_{ au L})$	$\mathbf{C}$

## ${\tt cbbnu}$

WC name	Operator	Type
SuddLL_2331	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^eta)(b_L^{\gamma T}C u_{eL})$	C
SuddLL_2332	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^eta)(b_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SuddLL_2333	$\epsilon_{lphaeta\gamma}(c_L^{lpha T}Cb_L^eta)(b_L^{\gamma T}C u_{ au L})$	$^{\mathrm{C}}$
SdudRL_3231	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(b_L^{\gamma T}C u_{eL})$	$^{\mathrm{C}}$
SdudRL_3232	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(b_L^{\gamma T}C u_{\mu L})$	$^{\mathrm{C}}$
SdudRL_3233	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{eta})(b_L^{ar{\gamma} T}C u_{ au L})$	C

## uude

WC name	Operator	Type
SduuLL_1111	$\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T}Cu_L^{\beta})(u_L^{\gamma T}Ce_L)$	С

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

## ${\tt uudmu}$

WC name	Operator	Type
SduuLL_1112	$\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T}Cu_L^{\beta})(u_L^{\gamma T}C\mu_L)$	C
SduuLR_1112	$\epsilon_{lphaeta\gamma}(d_L^{\overline{lpha}T}Cu_L^{\overline{eta}})(u_R^{\overline{\gamma}T}C\mu_R)$	$\mathbf{C}$
SduuRL_1112	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_1112	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(u_R^{ar{\gamma} T}C\mu_R)$	$\mathbf{C}$

## uudtau

WC name	Operator	Type
SduuLL_1113	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^{eta})(u_L^{\gamma T}C au_L)$	С
SduuLR_1113	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^eta)(u_R^{\gamma T}C au_R)$	$\mathbf{C}$
SduuRL_1113	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^eta)(u_L^{\gamma T}C au_L)$	$\mathbf{C}$
SduuRR_1113	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(u_R^{ar{\gamma} T}C au_R)$	С

### ucde

WC name	Operator	Type
SduuLL_1121	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^{eta})(c_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuLL_1211	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(u_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SuudLR_1211	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^eta)(d_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuLR_1121	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^eta)(c_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuLR_1211	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SuudRL_1211	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SduuRL_1121	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(c_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SduuRL_1211	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(u_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SduuRR_1121	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^eta)(c_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuRR_1211	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(u_R^{\gamma T}Ce_R)$	$^{\mathrm{C}}$

## $\mathtt{ucdmu}$

WC name	Operator	Type
SduuLL_1122	$\epsilon_{\alpha\beta\gamma}(d_L^{\alpha T}Cu_L^{\beta})(c_L^{\gamma T}C\mu_L)$	C
SduuLL_1212	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SuudLR_1212	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^eta)(d_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuLR_1122	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^eta)(c_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuLR_1212	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}C\mu_R)$	$^{\mathrm{C}}$
SuudRL_1212	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRL_1122	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^eta)(c_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRL_1212	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_1122	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(c_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuRR_1212	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(u_R^{\gamma T}C\mu_R)$	C

### ucdtau

WC name	Operator	Type
SduuLL_1123	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^{eta})(c_L^{\gamma T}C au_L)$	C
SduuLL_1213	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^{ar{eta}})(u_L^{ar{\gamma} T}C au_L)$	$\mathbf{C}$
SuudLR_1213	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^eta)(d_R^{\gamma T}C au_R)$	$\mathbf{C}$
SduuLR_1123	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cu_L^{eta})(c_R^{\gamma T}C au_R)$	$\mathbf{C}$
SduuLR_1213	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(u_{R\_}^{\gamma T}C au_R)$	$\mathbf{C}$
SuudRL_1213	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^eta)(d_L^{\gamma T}C au_L)$	$\mathbf{C}$
SduuRL_1123	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^{eta})(c_L^{\gamma T}C au_L)$	$\mathbf{C}$
SduuRL_1213	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^eta)(u_L^{\gamma T}C au_L)$	$\mathbf{C}$
SduuRR_1123	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cu_R^eta)(c_{R\_}^{\gamma T}C au_R)$	$\mathbf{C}$
SduuRR_1213	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{eta'})(u_R^{\gamma T}C au_R)$	$^{\mathrm{C}}$

## ccde

WC name	Operator	Type
SduuLL_1221	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(c_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuLR_1221	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(c_R^{\gamma T}Ce_R)$	$^{\mathrm{C}}$
SduuRL_1221	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{ar{eta}})(c_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuRR_1221	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{eta})(c_R^{ar{\gamma} T}Ce_R)$	$\mathbf{C}$

## ${\tt ccdmu}$

WC name	Operator	Type
SduuLL_1222	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^{eta})(c_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuLR_1222	$\epsilon_{lphaeta\gamma}(d_L^{ar{lpha}T}Cc_L^{ar{eta}})(c_R^{ar{\gamma}T}C\mu_R)$	$\mathbf{C}$
SduuRL_1222	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{ar{eta}})(c_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_1222	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{eta})(c_R^{\gamma T}C\mu_R)$	$\mathbf{C}$

## ccdtau

WC name	Operator	Type
SduuLL_1223	$\epsilon_{lphaeta\gamma}(d_L^{lpha T}Cc_L^eta)(c_L^{\gamma T}C au_L)$	C
SduuLR_1223	$\epsilon_{lphaeta\gamma}(d_L^{ar{lpha}T}Cc_L^{ar{eta}})(c_R^{ar{\gamma}T}C au_R)$	$\mathbf{C}$
SduuRL_1223	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{ar{eta}})(c_L^{\gamma T}C au_L)$	$\mathbf{C}$
SduuRR_1223	$\epsilon_{lphaeta\gamma}(d_R^{lpha T}Cc_R^{eta})(c_R^{ar{\gamma} T}C au_R)$	$^{\mathrm{C}}$

## uuse

WC name	Operator	Type
SduuLL_2111	$\epsilon_{\alpha\beta\gamma}(s_L^{\alpha T} C u_L^{\beta})(u_L^{\gamma T} C e_L)$	С
SduuLR_2111	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^eta)(u_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuRL_2111	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^{eta})(u_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SduuRR_2111	$\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cu_R^{\beta})(u_R^{\gamma T}Ce_R)$	C

### uusmu

WC name	Operator	Type
SduuLL_2112	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^{eta})(u_L^{\gamma T}C\mu_L)$	C
SduuLR_2112	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^{eta})(u_R^{\gamma T}C\mu_R)$	$^{\mathrm{C}}$
SduuRL_2112	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^{ar{eta}})(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_2112	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(u_R^{\gamma T}C\mu_R)$	$^{\mathrm{C}}$

### uustau

WC name	Operator	Type
SduuLL_2113	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^eta)(u_{L}^{\gamma T}C au_L)$	C
SduuLR_2113	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^{areta})(u_R^{ar\gamma T}C au_R)$	$^{\mathrm{C}}$
SduuRL_2113	$\epsilon_{lphaeta\gamma}(s_R^{\overline{lpha}T}Cu_R^{\overline{eta}})(u_L^{\gamma T}C au_L)$	$\mathbf{C}$

WC name	Operator	Type
SduuRR_2113	$\epsilon_{\alpha\beta\gamma}(s_R^{\alpha T}Cu_R^{\beta})(u_R^{\gamma T}C au_R)$	С

### ucse

WC name	Operator	Type
SduuLL_2121	$\epsilon_{\alpha\beta\gamma}(s_L^{\alpha T}Cu_L^{\beta})(c_L^{\gamma T}Ce_L)$	C
SduuLL_2211	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(u_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SuudLR_1221	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^{ar{eta}})(s_R^{ar{\gamma} T}Ce_R)$	$^{\mathrm{C}}$
SduuLR_2121	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^eta)(c_R^{\gamma T}Ce_R)$	$^{\mathrm{C}}$
SduuLR_2211	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SuudRL_1221	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^{eta})(s_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuRL_2121	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(c_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuRL_2211	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(u_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuRR_2121	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(c_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuRR_2211	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(u_R^{\gamma T}Ce_R)$	C

### ucsmu

WC name	Operator	Type
SduuLL_2122	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^eta)(c_L^{\gamma T}C\mu_L)$	C
SduuLL_2212	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SuudLR_1222	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^eta)(s_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuLR_2122	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^eta)(c_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuLR_2212	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SuudRL_1222	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^eta)(s_L^{\dot{\gamma} T}C\mu_L)$	$\mathbf{C}$
SduuRL_2122	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(c_{L}^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRL_2212	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_2122	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(c_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuRR_2212	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(u_R^{\gamma T}C\mu_R)$	$^{\mathrm{C}}$

# ucstau

WC name	Operator	Type
SduuLL_2123	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cu_L^{eta})(c_L^{\gamma T}C au_L)$	$^{\mathrm{C}}$
SduuLL_2213	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(u_L^{\gamma T}C au_L)$	$\mathbf{C}$
SuudLR_1223	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^eta)(s_R^{\gamma T}C au_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
SduuLR_2123	$\epsilon_{\alpha\beta\gamma}(s_L^{\alpha T}Cu_L^{\beta})(c_R^{\gamma T}C\tau_R)$	C
SduuLR_2213	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}C au_R)$	$\mathbf{C}$
SuudRL_1223	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^eta)(s_L^{\gamma T}C au_L)$	$^{\mathrm{C}}$
SduuRL_2123	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^{eceta})(c_L^{ec\gamma T}C au_L)$	$^{\mathrm{C}}$
SduuRL_2213	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(u_L^{\gamma T}C au_L)$	$^{\mathrm{C}}$
SduuRR_2123	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cu_R^eta)(c_R^{\gamma T}C au_R)$	$\mathbf{C}$
SduuRR_2213	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(u_R^{\gamma T}C au_R)$	C

## ccse

WC name	Operator	Type
SduuLL_2221	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^{eta})(c_L^{\gamma T}Ce_L)$	C
SduuLR_2221	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^{eceta})(c_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuRL_2221	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(c_L^{\dot{\gamma} T}Ce_L)$	$\mathbf{C}$
SduuRR_2221	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(c_R^{\gamma T}Ce_R)$	$\mathbf{C}$

## ccsmu

WC name	Operator	Type
SduuLL_2222	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^{eta})(c_L^{\gamma T}C\mu_L)$	C
SduuLR_2222	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(c_R^{\gamma T}C\mu_R)$	$^{\mathrm{C}}$
SduuRL_2222	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(c_L^{\gamma T}C\mu_L)$	$^{\mathrm{C}}$
SduuRR_2222	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(c_R^{\gamma T}C\mu_R)$	C

## ccstau

WC name	Operator	Type
SduuLL_2223	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(c_L^{\gamma T}C au_L)$	$\mathbf{C}$
SduuLR_2223	$\epsilon_{lphaeta\gamma}(s_L^{lpha T}Cc_L^eta)(c_R^{\gamma T}C au_R)$	$^{\mathrm{C}}$
SduuRL_2223	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^{eta})(c_L^{\gamma T}C au_L)$	$^{\mathrm{C}}$
SduuRR_2223	$\epsilon_{lphaeta\gamma}(s_R^{lpha T}Cc_R^eta)(c_R^{\gamma T}C au_R)$	$\mathbf{C}$

## uube

WC name	Operator	Type
SduuLL_3111	$\epsilon_{\alpha\beta\gamma}(b_L^{\alpha T}Cu_L^{\beta})(u_L^{\gamma T}Ce_L)$	С
SduuLR_3111	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cu_L^{eta})(u_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuRL_3111	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(u_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SduuRR_3111	$\epsilon_{\alpha\beta\gamma}(b_R^{\alpha T}Cu_R^{\beta})(u_R^{\gamma T}Ce_R)$	С

## uubmu

WC name	Operator	Type
SduuLL_3112	$\epsilon_{\alpha\beta\gamma}(b_L^{\alpha T}Cu_L^{\beta})(u_L^{\gamma T}C\mu_L)$	С
SduuLR_3112	$\epsilon_{\alpha\beta\gamma}(b_L^{\alpha T}Cu_L^{\beta})(u_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuRL_3112	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^{ar{eta}})(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_3112	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^{eta})(u_R^{ar{\gamma} T}C\mu_R)$	$\mathbf{C}$

## uubtau

WC name	Operator	Type
SduuLL_3113	$\epsilon_{\alpha\beta\gamma}(b_L^{\alpha T}Cu_L^{\beta})(u_L^{\gamma T}C\tau_L)$	C
SduuLR_3113	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cu_L^eta)(u_R^{\gamma T}C au_R)$	$^{\mathrm{C}}$
SduuRL_3113	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^{eta})(u_L^{\gamma T}C au_L)$	$^{\mathrm{C}}$
SduuRR_3113	$\epsilon_{\alpha\beta\gamma}(b_R^{\alpha T}Cu_R^{\beta})(u_R^{\gamma T}C au_R)$	C

## ucbe

WC name	Operator	Type
SduuLL_3121	$\epsilon_{\alpha\beta\gamma}(b_L^{\alpha T}Cu_L^{\beta})(c_L^{\gamma T}Ce_L)$	C
SduuLL_3211	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^eta)(u_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SuudLR_1231	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^eta)(b_R^{\gamma T}Ce_R)$	$^{\mathrm{C}}$
SduuLR_3121	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cu_L^eta)(c_R^{\gamma T}Ce_R)$	$^{\mathrm{C}}$
SduuLR_3211	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}Ce_R)$	$\mathbf{C}$
SuudRL_1231	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^{eta})(b_L^{\gamma T}Ce_L)$	$\mathbf{C}$
SduuRL_3121	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(c_L^{\gamma T}Ce_L)$	С
SduuRL_3211	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(u_{L\_}^{\gamma T}Ce_L)$	$\mathbf{C}$
SduuRR_3121	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(c_{R\_}^{\gamma T}Ce_R)$	$\mathbf{C}$
SduuRR_3211	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(u_R^{\gamma T}Ce_R)$	$\mathbf{C}$

## ucbmu

WC name	Operator	Type
SduuLL_3122	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cu_L^eta)(c_L^{\gamma T}C\mu_L)$	C
SduuLL_3212	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^{ar{eta}})(u_L^{ar{\gamma} T}C\mu_L)$	$\mathbf{C}$
SuudLR_1232	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^eta)(b_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuLR_3122	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cu_L^eta)(c_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuLR_3212	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SuudRL_1232	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^eta)(b_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRL_3122	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(c_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRL_3212	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(u_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_3122	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(c_R^{\gamma T}C\mu_R)$	$\mathbf{C}$
SduuRR_3212	$\epsilon_{\alpha\beta\gamma}(b_R^{\alpha T}Cc_R^{\beta})(u_R^{\gamma T}C\mu_R)$	С

## ucbtau

WC name	Operator	Type
SduuLL_3123	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cu_L^eta)(c_L^{\gamma T}C au_L)$	C
SduuLL_3213	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^eta)(u_L^{\gamma T}C au_L)$	$\mathbf{C}$
SuudLR_1233	$\epsilon_{lphaeta\gamma}(u_L^{lpha T}Cc_L^{ar{eta}})(b_R^{ar{\gamma} T}C au_R)$	$\mathbf{C}$
SduuLR_3123	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cu_L^eta)(c_R^{\gamma T}C au_R)$	$\mathbf{C}$
SduuLR_3213	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^eta)(u_R^{\gamma T}C au_R)$	$\mathbf{C}$
SuudRL_1233	$\epsilon_{lphaeta\gamma}(u_R^{lpha T}Cc_R^eta)(b_L^{\gamma T}C au_L)$	$\mathbf{C}$
SduuRL_3123	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^{eta})(c_{L}^{ar{\gamma} T}C au_L)$	C
SduuRL_3213	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(u_L^{\gamma T}C au_L)$	C
SduuRR_3123	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cu_R^eta)(c_{R}^{\gamma T}C au_R)$	$\mathbf{C}$
SduuRR_3213	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^eta)(u_R^{\gamma T}C au_R)$	С

## ccbe

WC name	Operator	Type
SduuLL_3221	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^eta)(c_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuLR_3221	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^{ar{eta}})(c_R^{ar{\gamma} T}Ce_R)$	$^{\mathrm{C}}$
SduuRL_3221	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{ar{eta}})(c_L^{\gamma T}Ce_L)$	$^{\mathrm{C}}$
SduuRR_3221	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{eta})(c_R^{\gamma T}Ce_R)$	$\mathbf{C}$

### ccbmu

WC name	Operator	Type
SduuLL_3222	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^{eta})(c_L^{\gamma T}C\mu_L)$	C
SduuLR_3222	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^{ar{eta}})(c_R^{ar{\gamma} T}C\mu_R)$	$\mathbf{C}$
SduuRL_3222	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{eta})(c_L^{\gamma T}C\mu_L)$	$\mathbf{C}$
SduuRR_3222	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{eta})(c_R^{ar{\gamma} T}C\mu_R)$	$\mathbf{C}$

## ${\tt ccbtau}$

WC name	Operator	Type
SduuLL_3223	$\epsilon_{lphaeta\gamma}(b_L^{lpha T}Cc_L^eta)(c_L^{\gamma T}C au_L)$	C
SduuLR_3223	$\epsilon_{lphaeta\gamma}(b_L^{ar{lpha}T}Cc_L^{ar{eta}})(c_R^{ar{\gamma}T}C au_R)$	$\mathbf{C}$
SduuRL_3223	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{eta})(c_L^{\gamma T}C au_L)$	$^{\mathrm{C}}$
SduuRR_3223	$\epsilon_{lphaeta\gamma}(b_R^{lpha T}Cc_R^{eta})(c_R^{\gamma T}C au_R)$	$\mathbf{C}$