# 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

#### 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	$(ar{s}_L b_R)(ar{s}_L b_R)$	$\mathbf{C}$
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	$(ar{d}_L \gamma^\mu b_L) (ar{d}_L \gamma_\mu b_L)$	С
VddRR_1313	$(ar{d}_R \gamma^\mu b_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
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	$(\bar{b}_L T^A d_R)(\bar{b}_L T^A d_R)$	$\mathbf{C}$

#### 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	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$

WC name	Operator	Type
S1ddRR_1212	$(ar{d}_L s_R)(ar{d}_L s_R)$	С
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	$(ar{u}_R \gamma^\mu c_R) (ar{u}_R \gamma_\mu c_R)$	$\mathbf{C}$
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	$(\bar{d}_L \gamma^\mu b_L)(\bar{s}_L \gamma_\mu b_L)$	С
VddRR_1323	$(ar{d}_R \gamma^\mu b_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu c_L)(\bar{s}_L \gamma_\mu b_L)$	С
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	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$

WC name	Operator	Type
V1udLR_1223	$(\bar{u}_L \gamma^\mu c_L)(\bar{s}_R \gamma_\mu b_R)$	С
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	$(\bar{u}_L c_R)(\bar{s}_L b_R)$	$\mathbf{C}$
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	$(\bar{u}_L b_R)(\bar{s}_L c_R)$	$\mathbf{C}$
S1udduRR_2231	$(\bar{c}_L s_R)(\bar{b}_L u_R)$	$\mathbf{C}$
S8udduRR_1322	$(\bar{u}_L T^A b_R)(\bar{s}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2231	$(\bar{c}_L T^A s_R)(\bar{b}_L T^A u_R)$	$\mathbf{C}$

#### sbcu

WC name	Operator	Type
V1udLL_1232	$(\bar{u}_L \gamma^\mu c_L)(\bar{b}_L \gamma_\mu s_L)$	С
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	$(\bar{u}_L \gamma^\mu c_L)(\bar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu s_L)(\bar{b}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1udduLR_2321	$(\bar{c}_L \gamma^\mu b_L)(\bar{s}_R \gamma_\mu u_R)$	$\mathbf{C}$
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	$(ar{c}_L u_R)(ar{s}_L b_R)$	$\mathbf{C}$
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	$(\bar{c}_L b_R)(\bar{s}_L u_R)$	$\mathbf{C}$
S8udduRR_1232	$(\bar{u}_L T^A s_R)(\bar{b}_L T^A c_R)$	$^{\mathrm{C}}$
S8udduRR_2321	$(\bar{c}_L T^A b_R)(\bar{s}_L T^A u_R)$	С

# dbuc

WC name	Operator	Type
V1udLL_1213	$(\bar{u}_L \gamma^\mu c_L)(\bar{d}_L \gamma_\mu b_L)$	С
V8udLL_1213	$(\bar{u}_L \gamma^\mu T^A c_L) (\bar{d}_L \gamma_\mu T^A b_L)$	С
V1udRR_1213	$(\bar{u}_R \gamma^\mu c_R)(\bar{d}_R \gamma_\mu b_R)$	С
V8udRR_1213	$(\bar{u}_R \gamma^\mu T^A c_R) (\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V1udLR_1213	$(\bar{u}_L \gamma^\mu c_L)(\bar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udLR_1213	$(\bar{u}_L \gamma^\mu T^A c_L) (\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V1duLR_1312	$(\bar{d}_L \gamma^\mu b_L)(\bar{u}_R \gamma_\mu c_R)$	С
V8duLR_1312	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A c_R)$	С
V1udduLR_1312	$(\bar{u}_L \gamma^\mu b_L)(\bar{d}_R \gamma_\mu c_R)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{b}_L \gamma_\mu T^A d_L)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu c_L)(\bar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu d_L)(\bar{b}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1udduLR_2311	$(\bar{c}_L \gamma^\mu b_L)(\bar{d}_R \gamma_\mu u_R)$	$\mathbf{C}$
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	$(ar{c}_L u_R)(ar{d}_L b_R)$	$\mathbf{C}$

WC name	Operator	Type
S8udRR_1231	$(\bar{u}_L T^A c_R)(\bar{b}_L T^A d_R)$	C
S8udRR_2113	$(\bar{c}_L T^A u_R)(\bar{d}_L T^A b_R)$	$\mathbf{C}$
S1udduRR_1132	$(\bar{u}_L d_R)(\bar{b}_L c_R)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu c_L)(\bar{s}_L \gamma_\mu d_L)$	$\mathbf{C}$
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	$(ar{u}_L d_R)(ar{s}_L c_R)$	$\mathbf{C}$
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
V8udLL_1212	$(\bar{u}_L \gamma^\mu T^A c_L) (\bar{d}_L \gamma_\mu T^A s_L)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$

WC name	Operator	Type
V1duLR_1212	$(\bar{d}_L \gamma^\mu s_L)(\bar{u}_R \gamma_\mu c_R)$	С
V8duLR_1212	$(\bar{d}_L \gamma^\mu T^A s_L) (\bar{u}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V1udduLR_1212	$(\bar{u}_L \gamma^\mu s_L)(\bar{d}_R \gamma_\mu c_R)$	$\mathbf{C}$
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	$(\bar{c}_L T^A d_R)(\bar{s}_L T^A u_R)$	$\mathbf{C}$

# sbsd

WC name	Operator	Type
VddLL_1232	$(\bar{d}_L \gamma^\mu s_L)(\bar{b}_L \gamma_\mu s_L)$	С
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	$(\bar{s}_L d_R)(\bar{s}_L b_R)$	$\mathbf{C}$
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	$(\bar{d}_L \gamma^\mu s_L)(\bar{d}_L \gamma_\mu b_L)$	С
VddRR_1213	$(ar{d}_R \gamma^\mu s_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_1213	$(ar{d}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
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	$(ar{d}_L s_R)(ar{d}_L b_R)$	$\mathbf{C}$

WC name	Operator	Type
S1ddRR_2131		С
S8ddRR_1213	$(\bar{d}_L T^A s_R)(\bar{d}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_2131	$(\bar{s}_L T^A d_R)(\bar{b}_L T^A d_R)$	$\mathbf{C}$

# sb

WC name	Operator	Type
dgamma_23	$\bar{s}_L \sigma^{\mu\nu} b_R F_{\mu\nu}$	С
dgamma_32	$ar{b}_L \sigma^{\mu u} s_R  F_{\mu u}$	$\mathbf{C}$
dG_23	$ar{s}_L \sigma^{\mu  u} T^A b_R^{\ \prime} G^A_{\mu  u}$	$\mathbf{C}$
dG_32	$ar{b}_L \sigma^{\mu u} T^A s_R  G^{^{lpha}}_{\mu u}$	$\mathbf{C}$
VedLL_1123	$(ar{e}_L\gamma^\mu e_L)(ar{s}_L\gamma_\mu b_L)$	$\mathbf{C}$
VedLL_2223	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{s}_L \gamma_\mu b_L)$	$\mathbf{C}$
VedLL_3323	$(ar{ au}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
VddLL_1123	$(ar{d}_L\gamma^\mu d_L)(ar{s}_L\gamma_\mu b_L)$	$\mathbf{C}$
VddLL_1231	$(ar{d}_L \gamma^\mu s_L) (ar{b}_L \gamma_\mu d_L)$	$\mathbf{C}$
VddLL_2223	$(ar{s}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu b_L)$	$\mathbf{C}$
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	$(ar{u}_L \gamma^\mu T^A u_L) (ar{s}_L \gamma_\mu T^A b_L)$	$^{\mathrm{C}}$
V8udLL_2223	$(ar{c}_L \gamma^\mu T^A c_L) (ar{s}_L \gamma_\mu T^A b_L)$	$^{\mathrm{C}}$
VedRR_1123	$(ar{e}_R \gamma^\mu e_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedRR_2223	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedRR_3323	$(ar{ au}_R\gamma^\mu au_R)(ar{s}_R\gamma_\mu b_R)$	$\mathbf{C}$
VddRR_1123	$(ar{d}_R \gamma^\mu d_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VddRR_1231	$(ar{d}_R \gamma^\mu s_R) (ar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
VddRR_2223	$(ar{s}_R \gamma^\mu s_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VddRR_2333	$(ar{s}_R \gamma^\mu b_R) (ar{b}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1udRR_1123	$(ar{u}_R \gamma^\mu u_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1udRR_2223	$(ar{c}_R \gamma^\mu c_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udRR_1123	$(\bar{u}_R \gamma^\mu T^A u_R)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8udRR_2223	$(\bar{c}_R \gamma^\mu T^A c_R)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
VedLR_1123	$(ar{e}_L \gamma^\mu e_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedLR_2223	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedLR_3323	$(ar au_L\gamma^\mu au_L)(ar s_R\gamma_\mu b_R)$	$\mathbf{C}$
VdeLR_2311	$(ar{s}_L \gamma^\mu b_L) (ar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
VdeLR_2322	$(\bar{s}_L \gamma^\mu b_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VdeLR_2333	$(ar{s}_L \gamma^\mu b_L)(ar{ au}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
V1udLR_1123	$(ar{u}_L \gamma^\mu u_L) (ar{s}_R \gamma_\mu b_R)$	C
V1udLR_2223	$(ar{c}_L\gamma^\mu c_L)(ar{s}_R\gamma_\mu b_R)$	C
V8udLR_1123	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$

WC name	Operator	Type
V8udLR_2223	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{s}_R \gamma_\mu T^A b_R)$	C
V1duLR_2311	$(ar{s}_L \gamma^\mu b_L) (ar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
V1duLR_2322	$(ar{s}_L \gamma^\mu b_L) (ar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
V8duLR_2311	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8duLR_2322	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{c}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
V1ddLR_1123	$(ar{d}_L \gamma^\mu d_L) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
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	$(ar{s}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_2311	$(ar{s}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_2322	$(ar{s}_L \gamma^\mu b_L)(ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_2333	$(ar{s}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1ddLR_3323	$(ar{b}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V8ddLR_1123	$(ar{d}_L \gamma^\mu T^A d_L) (ar{s}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V8ddLR_1231	$(\bar{d}_L \gamma^\mu T^A s_L) (\bar{b}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
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	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V8ddLR_2322	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V8ddLR_2333	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_3323	$(\bar{b}_L \gamma^\mu T^A b_L)(\bar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V1udduLR_1231	$(\bar{u}_L \gamma^\mu s_L)(\bar{b}_R \gamma_\mu u_R)$	$\mathbf{C}$
V1udduLR_1321	$(ar{u}_L\gamma^\mu b_L)(ar{s}_R\gamma_\mu u_R)$	$\mathbf{C}$
V1udduLR_2232	$(ar{c}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu c_R)$	$\mathbf{C}$
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	$(ar{e}_L e_R)(ar{s}_R b_L)$	$\mathbf{C}$
SedRL_1132	$(ar{e}_L e_R)(ar{b}_R s_L)$	$^{\mathrm{C}}$
SedRL_2223	$(ar{\mu}_L \mu_R)(ar{s}_R b_L)$	$\mathbf{C}$
SedRL_2232	$(ar{\mu}_L \mu_R)(ar{b}_R s_L)$	$^{\mathrm{C}}$
SedRL_3323	$(ar au_L au_R)(ar s_R b_L)$	$\mathbf{C}$
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	$(ar{\mu}_L \mu_R) (ar{s}_L b_R)$	$^{\mathrm{C}}$
SedRR_2232	$(ar{\mu}_L \mu_R)(ar{b}_L s_R)$	$\mathbf{C}$
SedRR_3323	$(ar{ au}_L au_R)(ar{s}_Lb_R)$	$^{\mathrm{C}}$
SedRR_3332	$(ar au_L au_R)(ar b_Ls_R)$	$\mathbf{C}$
TedRR_1123	$(ar{e}_L\sigma^{\mu u}e_R)(ar{s}_L\sigma_{\mu u}b_R)$	$\mathbf{C}$
TedRR_1132	$(ar{e}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$

WC name	Operator	Type
TedRR_2223	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{s}_L \sigma_{\mu  u} b_R)$	С
TedRR_2232	$(ar{\mu}_L \sigma^{\mu u} \mu_R) (ar{b}_L \sigma_{\mu u} s_R)$	$\mathbf{C}$
TedRR_3323	$(ar au_L \sigma^{\mu u}  au_R) (ar s_L \sigma_{\mu u} b_R)$	$^{\mathrm{C}}$
TedRR_3332	$(ar au_L \sigma^{\mu u}  au_R) (ar b_L \sigma_{\mu u} s_R)$	$^{\mathrm{C}}$
S1udRR_1123	$(\bar{u}_L u_R)(\bar{s}_L b_R)$	$\mathbf{C}$
S1udRR_1132	$(ar{u}_L u_R)(ar{b}_L s_R)$	$^{\mathrm{C}}$
S1udRR_2223	$(ar{c}_L c_R)(ar{s}_L b_R)$	$\mathbf{C}$
S1udRR_2232	$(ar{c}_L c_R)(ar{b}_L s_R)$	$^{\mathrm{C}}$
S8udRR_1123	$(\bar{u}_L T^A u_R)(\bar{s}_L T^A b_R)$	$\mathbf{C}$
S8udRR_1132	$(\bar{u}_L T^A u_R)(\bar{b}_L T^A s_R)$	$\mathbf{C}$
S8udRR_2223	$(ar{c}_L T^A c_R) (ar{s}_L T^A b_R)$	$\mathbf{C}$
S8udRR_2232	$(ar{c}_L T^A c_R) (ar{b}_L T^A s_R)$	$\mathbf{C}$
S1ddRR_1123	$(ar{d}_L d_R)(ar{s}_L b_R)$	$^{\mathrm{C}}$
S1ddRR_1132	$(ar{d}_L d_R)(ar{b}_L s_R)$	$^{\mathrm{C}}$
S1ddRR_1231	$(ar{d}_L s_R)(ar{b}_L d_R)$	$^{\mathrm{C}}$
S1ddRR_1321	$(ar{d}_L b_R)(ar{s}_L d_R)$	$\mathbf{C}$
S1ddRR_2223	$(ar{s}_L s_R)(ar{s}_L b_R)$	$\mathbf{C}$
S1ddRR_2232	$(ar{s}_L s_R)(ar{b}_L s_R)$	$\mathbf{C}$
S1ddRR_2333	$(ar{s}_L b_R)(ar{b}_L b_R)$	$\mathbf{C}$
S1ddRR_3233	$(ar{b}_L s_R)(ar{b}_L b_R)$	$\mathbf{C}$
S8ddRR_1123	$(ar{d}_L T^A d_R) (ar{s}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_1132	$(\bar{d}_L T^A d_R)(\bar{b}_L T^A s_R)$	$^{\mathrm{C}}$
S8ddRR_1231	$(\bar{d}_L T^A s_R)(\bar{b}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_1321	$(ar{d}_L T^A b_R) (ar{s}_L T^A d_R)$	$\mathbf{C}$
S8ddRR_2223	$(\bar{s}_L T^A s_R)(\bar{s}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_2232	$(\bar{s}_L T^A s_R)(\bar{b}_L T^A s_R)$	$^{\mathrm{C}}$
S8ddRR_2333	$(ar{s}_L T^A b_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S8ddRR_3233	$(ar{b}_L T^A s_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S1udduRR_1231	$(ar{u}_L s_R)(ar{b}_L u_R)$	$^{\mathrm{C}}$
S1udduRR_1321	$(ar{u}_L b_R)(ar{s}_L u_R)$	$\mathbf{C}$
S1udduRR_2232	$(ar{c}_L s_R)(ar{b}_L c_R)$	$\mathbf{C}$
S1udduRR_2322	$(ar{c}_L b_R)(ar{s}_L c_{ar{R}})$	$\mathbf{C}$
S8udduRR_1231	$(\bar{u}_L T^A s_R)(\bar{b}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_1321	$(\bar{u}_L T^A b_R)(\bar{s}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_2232	$(ar{c}_L T^A s_R) (ar{b}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2322	$(ar{c}_L T^A b_R) (ar{s}_L T^A c_R)$	$^{\mathrm{C}}$

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WC name	Operator	Type
dgamma_13	$ar{d}_L \sigma^{\mu u} b_R  F_{\mu u}$	C

WC name	Operator	Type
dgamma_31	$ar{b}_L \sigma^{\mu u} d_R  F_{\mu u}$	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	$(ar{e}_L \gamma^\mu e_L) (ar{d}_L \gamma_\mu b_L)$	$\mathbf{C}$
VedLL_2213	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu b_L)$	$\mathbf{C}$
VedLL_3313	$(ar au_L\gamma^\mu au_L)(ar d_L\gamma_\mu b_L)$	$\mathbf{C}$
VddLL_1113	$(ar{d}_L \gamma^\mu d_L) (ar{d}_L \gamma_\mu b_L)$	$\mathbf{C}$
VddLL_1223	$(ar{d}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu b_L)$	$\mathbf{C}$
VddLL_1322	$(ar{d}_L\gamma^\mu b_L)(ar{s}_L\gamma_\mu s_L)$	$\mathbf{C}$
VddLL_1333	$(ar{d}_L \gamma^\mu b_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{C}$
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	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_L \gamma_\mu T^A b_L)$	$\mathbf{C}$
V8udLL_2213	$(ar{c}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A b_L)$	$\mathbf{C}$
VedRR_1113	$(ar{e}_R \gamma^\mu e_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedRR_2213	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedRR_3313	$(ar{ au}_R \gamma^\mu  au_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
VddRR_1113	$(ar{d}_R \gamma^\mu d_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
VddRR_1223	$(ar{d}_R \gamma^\mu s_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VddRR_1322	$(ar{d}_R \gamma^\mu b_R) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VddRR_1333	$(ar{d}_R\gamma^\mu b_R)(ar{b}_R\gamma_\mu b_R)$	$\mathbf{C}$
V1udRR_1113	$(ar{u}_R \gamma^\mu u_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1udRR_2213	$(ar{c}_R \gamma^\mu c_R) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8udRR_1113	$(\bar{u}_R \gamma^\mu T^A u_R) (\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8udRR_2213	$(\bar{c}_R \gamma^\mu T^A c_R) (\bar{d}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
VedLR_1113	$(ar{e}_L \gamma^\mu e_L) (ar{d}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedLR_2213	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu b_R)$	C
VedLR_3313	$(ar au_L\gamma^\mu au_L)(ar d_R\gamma_\mu b_R)$	$^{\mathrm{C}}$
VdeLR_1311	$(ar{d}_L \gamma^\mu b_L) (ar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
VdeLR_1322	$(ar{d}_L \gamma^\mu b_L) (ar{\mu}_R \gamma_\mu \mu_R)$	C
VdeLR_1333	$(ar{d}_L \gamma^\mu b_L) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
V1udLR_1113	$(ar{u}_L \gamma^\mu u_L) (ar{d}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1udLR_2213	$(ar{c}_L \gamma^\mu c_L) (ar{d}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V8udLR_1113	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8udLR_2213	$(\bar{c}_L \gamma^\mu T^A c_L) (\bar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V1duLR_1311	$(ar{d}_L\gamma^\mu b_L)(ar{u}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
V1duLR_1322	$(ar{d}_L \gamma^\mu b_L) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
V8duLR_1311	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8duLR_1322	$(ar{d}_L \gamma^\mu T^A b_L) (ar{c}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
V1ddLR_1113	$(ar{d}_L \gamma^\mu d_L) (ar{d}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
V1ddLR_1223	$(ar{d}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_1311	$(ar{d}_L\gamma^\mu b_L)(ar{d}_R\gamma_\mu d_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
V1ddLR_1322	$(ar{d}_L \gamma^\mu b_L) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_1333	$(ar{d}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu b_R)$	$^{\mathrm{C}}$
V1ddLR_2213	$(ar{s}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_2312	$(ar{s}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_3313	$(ar{b}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu b_R)$	$\mathbf{C}$
V8ddLR_1113	$(ar{d}_L \gamma^\mu T^A d_L) (ar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_1223	$(ar{d}_L \gamma^\mu T^A s_L) (ar{s}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_1311	$(ar{d}_L \gamma^\mu T^A b_L) (ar{d}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V8ddLR_1322	$(\bar{d}_L \gamma^\mu T^A b_L) (\bar{s}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V8ddLR_1333	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_2213	$(ar{s}_L \gamma^\mu T^A s_L) (ar{d}_R \gamma_\mu T^A b_R)$	$\mathbf{C}$
V8ddLR_2312	$(\bar{s}_L \gamma^\mu T^A b_L) (\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
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	$(ar{u}_L\gamma^\mu b_L)(ar{d}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
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	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{b}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_1311	$(\bar{u}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_2132	$(\bar{c}_L \gamma^\mu T^A d_L)(\bar{b}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2312	$(ar{c}_L \gamma^\mu T^A b_L) (ar{d}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
SedRL_1113	$(ar{e}_L e_R)(ar{d}_R b_L)$	$\mathbf{C}$
SedRL_1131	$(ar{e}_L e_R)(ar{b}_{ar{R}} d_L)$	$\mathbf{C}$
SedRL_2213	$(ar{\mu}_L\mu_R)(ar{d}_Rb_L)$	$^{\mathrm{C}}$
SedRL_2231	$(ar{\mu}_L\mu_R)(ar{b}_Rd_L)$	$^{\mathrm{C}}$
SedRL_3313	$(ar au_L au_R)(ar d_R b_L)$	$^{\mathrm{C}}$
SedRL_3331	$(ar{ au}_L au_R)(b_{ar{R}}d_L)$	$\mathbf{C}$
SedRR_1113	$(ar{e}_L e_R)(ar{d}_L b_R)$	$^{\mathrm{C}}$
SedRR_1131	$(ar{e}_L e_R)(b_{ar{L}} d_R)$	$^{\mathrm{C}}$
SedRR_2213	$(ar{\mu}_L\mu_R)(ar{d}_Lb_R)$	$^{\mathrm{C}}$
SedRR_2231	$(ar{\mu}_L\mu_R)(ar{b}_Ld_R)$	$^{\mathrm{C}}$
SedRR_3313	$(ar au_L au_R)(ar d_L b_R)$	$^{\mathrm{C}}$
SedRR_3331	$(ar au_L au_R)(b_Ld_{ar R})$	$\mathbf{C}$
TedRR_1113	$(ar{e}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}b_R)$	$^{\mathrm{C}}$
TedRR_1131	$(ar{e}_L\sigma^{\mu u}e_R)(b_{ar{L}}\sigma_{\mu u}d_R)$	$\mathbf{C}$
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	$(ar{ au}_L\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}d_R)$	$\stackrel{ ext{C}}{ ilde{\sim}}$
S1udRR_1113	$(ar{u}_L u_R)(ar{d}_L b_R)$	$^{\mathrm{C}}$
S1udRR_1131	$(ar{u}_L u_R)(b_L d_R)$	C
S1udRR_2213	$(ar{c}_L c_R)(d_L b_R)$	$^{\mathrm{C}}$

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

# sd

WC name	Operator	Type
dgamma_12	$ar{d}_L \sigma^{\mu u} s_R  F_{\mu u}$	C
dgamma_21	$ar{s}_L \sigma^{\mu u} d_R F_{\mu u}$	$^{\mathrm{C}}$
dG_12	$ar{d}_L \sigma^{\mu u} T^A s_R  G^A_{\mu u}$	$\mathbf{C}$
dG_21	$ar{s}_L \sigma^{\mu u} T^A d_R  G^A_{\mu u}$	$^{\mathrm{C}}$
VedLL_1112	$(ar{e}_L \gamma^\mu e_L) (ar{d}_L \gamma^\mu_\mu s_L)$	$^{\mathrm{C}}$
VedLL_2212	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu s_L)$	$^{\mathrm{C}}$
VedLL_3312	$(ar{ au}_L\gamma^\mu au_L)(ar{d}_L\gamma_\mu s_L)$	$^{\mathrm{C}}$
VddLL_1112	$(ar{d}_L \gamma^\mu d_L) (ar{d}_L \gamma_\mu s_L)$	$\mathbf{C}$

WC name	Operator	Type
VddLL_1222	$(ar{d}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu s_L)$	С
VddLL_1233	$(ar{d}_L \gamma^\mu s_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{C}$
VddLL_1332	$(ar{d}_L \gamma^\mu b_L) (ar{b}_L \gamma_\mu s_L)$	$^{\mathrm{C}}$
V1udLL_1112	$(ar{u}_L \gamma^\mu u_L) (ar{d}_L \gamma_\mu s_L)$	C
V1udLL_2212	$(ar{c}_L \gamma^\mu c_L) (ar{d}_L \gamma_\mu s_L)$	$^{\mathrm{C}}$
V8udLL_1112	$(ar{u}_L \gamma^\mu T^A u_L) (ar{d}_L \gamma_\mu T^A s_L)$	C
V8udLL_2212	$(ar{c}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A s_L)$	C
VedRR_1112	$(ar{e}_R \gamma^\mu e_R) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VedRR_2212	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
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	$(ar{d}_R \gamma^\mu s_R) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
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	$(ar{u}_R \gamma^\mu u_R) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1udRR_2212	$(ar{c}_R \gamma^\mu c_R) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V8udRR_1112	$(\bar{u}_R \gamma^\mu T^A u_R) (\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
V8udRR_2212	$(\bar{c}_R \gamma^\mu T^A c_R) (\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
VedLR_1112	$(ar{e}_L \gamma^\mu e_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_2212	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu s_R)$	C
VedLR_3312	$(ar au_L\gamma^\mu au_L)(ar d_R\gamma_\mu s_R)$	C
VdeLR_1211	$(ar{d}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu e_R)$	$\mathbf{C}$
VdeLR_1222	$(ar{d}_L \gamma^\mu s_L)(ar{\mu}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VdeLR_1233	$(ar{d}_L \gamma^\mu s_L)(ar{ au}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
V1udLR_1112	$(ar{u}_L \gamma^\mu u_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1udLR_2212	$(ar{c}_L \gamma^\mu c_L) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V8udLR_1112	$(\bar{u}_L \gamma^\mu T^A u_L) (\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
V8udLR_2212	$(\bar{c}_L \gamma^\mu T^A c_L) (\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V1duLR_1211	$(ar{d}_L\gamma^\mu s_L)(ar{u}_R\gamma_\mu u_R)$	$\mathbf{C}$
V1duLR_1222	$(ar{d}_L \gamma^\mu s_L) (ar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
V8duLR_1211	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{u}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8duLR_1222	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{c}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V1ddLR_1112	$(ar{d}_L \gamma^\mu d_L) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V1ddLR_1211	$(ar{d}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_1222	$(ar{d}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_1233	$(ar{d}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
V1ddLR_1332	$(ar{d}_L\gamma^\mu b_L)(ar{b}_R\gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_2212	$(ar{s}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_2331	$(ar{s}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
V1ddLR_3312	$(ar{b}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
V8ddLR_1112	$(ar{d}_L \gamma^\mu T^A d_L) (ar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V8ddLR_1211	$(ar{d}_L \gamma^\mu T^A s_L) (ar{d}_R \gamma_\mu T^A d_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
V8ddLR_1222	$(\bar{d}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A s_R)$	C
V8ddLR_1233	$(ar{d}_L \gamma^\mu T^A s_L) (ar{b}_R \gamma_\mu T^A b_R)$	$^{\mathrm{C}}$
V8ddLR_1332	$(ar{d}_L \gamma^\mu T^A b_L) (ar{b}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
V8ddLR_2212	$(\bar{s}_L \gamma^\mu T^A s_L) (\bar{d}_R \gamma_\mu T^A s_R)$	$^{\mathrm{C}}$
V8ddLR_2331	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V8ddLR_3312	$(\bar{b}_L \gamma^\mu T^A b_L)(\bar{d}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
V1udduLR_1121	$(ar{u}_L \gamma^\mu d_L) (ar{s}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
V1udduLR_1211	$(ar{u}_L\gamma^\mu s_L)(ar{d}_R\gamma_\mu u_R)$	$^{\mathrm{C}}$
V1udduLR_2122	$(\bar{c}_L \gamma^\mu d_L)(\bar{s}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
V1udduLR_2212	$(ar{c}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
V8udduLR_1121	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_1211	$(\bar{u}_L \gamma^\mu T^A s_L) (\bar{d}_R \gamma_\mu T^A u_R)$	$^{\mathrm{C}}$
V8udduLR_2122	$(ar{c}_L \gamma^\mu T^A d_L) (ar{s}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
V8udduLR_2212	$(\bar{c}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$
SedRL_1112	$(ar{e}_L e_R)(ar{d}_R s_L)$	$^{\mathrm{C}}$
SedRL_1121	$(ar{e}_L e_R)(ar{s}_R d_L)$	$^{\mathrm{C}}$
SedRL_2212	$(ar{\mu}_L \mu_R) (ar{d}_R s_L)$	$^{\mathrm{C}}$
SedRL_2221	$(ar{\mu}_L \mu_R)(ar{s}_R d_L)$	$^{\mathrm{C}}$
SedRL_3312	$(ar{ au}_L au_R)(ar{d}_Rs_L)$	$^{\mathrm{C}}$
SedRL_3321	$(ar{ au}_L au_R)(ar{s}_Rd_L)$	$\mathbf{C}$
SedRR_1112	$(ar{e}_L e_R)(ar{d}_L s_R)$	$^{\mathrm{C}}$
SedRR_1121	$(ar{e}_L e_R)(ar{s}_L d_R)$	$^{\mathrm{C}}$
SedRR_2212	$(ar{\mu}_L \mu_R) (ar{d}_L s_R)$	$\mathbf{C}$
SedRR_2221	$(ar{\mu}_L \mu_R)(ar{s}_L d_R)$	$\mathbf{C}$
SedRR_3312	$(ar{ au}_L au_R)(ar{d}_Ls_R)$	$^{\mathrm{C}}$
SedRR_3321	$(ar{ au}_L au_R)(ar{s}_Ld_{ar{R}})$	$^{\mathrm{C}}$
TedRR_1112	$(ar{e}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
TedRR_1121	$(\bar{e}_L \sigma^{\mu  u} e_R) (\bar{s}_{\underline{L}} \sigma_{\mu  u} d_R)$	$\mathbf{C}$
TedRR_2212	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (d_L \sigma_{\mu  u} s_R)$	$\mathbf{C}$
TedRR_2221	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{s}_L \sigma_{\mu  u} d_R)$	$\mathbf{C}$
TedRR_3312	$(ar{ au}_L \sigma^{\mu u}  au_R) (ar{d}_L \sigma_{\mu u} s_R)$	$^{\mathrm{C}}$
TedRR_3321	$(ar{ au}_L \sigma^{\mu u}  au_{R}) (ar{s}_L \sigma_{\mu u} d_R)$	$\mathbf{C}$
S1udRR_1112	$(ar{u}_L u_R)(d_L s_R)$	$^{\mathrm{C}}$
S1udRR_1121	$(ar{u}_L u_R)(ar{s}_L d_R)$	$\mathbf{C}$
S1udRR_2212	$(ar{c}_L c_R)(ar{d}_L s_R)$	$\mathbf{C}$
S1udRR_2221	$(ar{c}_L c_R)(ar{s}_L d_R)$	$^{\mathrm{C}}$
S8udRR_1112	$(ar{u}_L T^A u_R) (ar{d}_L T^A s_R)$	C
S8udRR_1121	$(\bar{u}_L T^A u_R)(\bar{s}_L T^A d_R)$	$^{\mathrm{C}}$
S8udRR_2212	$(\bar{c}_L T^A c_R)(\bar{d}_L T^A s_R)$	C
S8udRR_2221	$(ar{c}_L T^A c_R) (ar{s}_L T^A d_R)$	$^{\mathrm{C}}$
S1ddRR_1112	$(ar{d_L}d_R)(d_Ls_R)$	$^{\mathrm{C}}$
S1ddRR_1121	$(ar{d}_L d_R)(ar{s}_L d_R)$	$^{\mathrm{C}}$
S1ddRR_1222	$(ar{d}_L s_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$

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

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WC name	Operator	Type
ugamma_12	$ar{u}_L \sigma^{\mu u} c_R  F_{\mu u}$	$^{\rm C}$
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	$ar{c}_L \sigma^{\mu u} T^A u_R  G^A_{\mu u}$	С
VeuLL_1112	$(ar{e}_L \gamma^\mu e_L) (ar{u}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
VeuLL_2212	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{u}_L \dot{\gamma}_\mu c_L)$	С
VeuLL_3312	$(ar au_L\gamma^\mu au_L)(ar u_L\gamma_\mu c_L)$	$^{\mathrm{C}}$
VuuLL_1112	$(\bar{u}_L \gamma^\mu u_L)(\bar{u}_L \gamma_\mu c_L)$	$^{\mathrm{C}}$
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	$(ar{u}_L \gamma^\mu c_L) (ar{b}_L \gamma_\mu b_L)$	$^{\mathrm{C}}$
V8udLL_1211	$(ar{u}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A d_L)$	$^{\mathrm{C}}$
V8udLL_1222	$(ar{u}_L \gamma^\mu T^A c_L) (ar{s}_L \gamma_\mu T^A s_L)$	$\mathbf{C}$
V8udLL_1233	$(\bar{u}_L \gamma^\mu T^A c_L)(\bar{b}_L \gamma_\mu T^A b_L)$	$\mathbf{C}$
VeuRR_1112	$(ar{e}_R\gamma^\mu e_R)(ar{u}_R\gamma_\mu c_R)$	$\mathbf{C}$

WC name	Operator	Type
VeuRR_2212	$(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{u}_R \gamma_\mu c_R)$	С
VeuRR_3312	$(ar{ au}_R\gamma^\mu au_R)(ar{u}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
- VuuRR_1112	$(ar{u}_R\gamma^\mu u_R)(ar{u}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
	$(ar{u}_R\gamma^\mu c_R)(ar{c}_R\gamma_\mu c_R)$	$^{\mathrm{C}}$
V1udRR_1211	$(ar{u}_R\gamma^\mu c_R)(ar{d}_R\gamma_\mu d_R)$	$^{\mathrm{C}}$
V1udRR_1222	$(ar{u}_R\gamma^\mu c_R)(ar{s}_R\gamma_\mu s_R)$	$^{\mathrm{C}}$
V1udRR_1233	$(ar{u}_R\gamma^\mu c_R)(ar{b}_R\gamma_\mu b_R)$	$^{\mathrm{C}}$
V8udRR_1211	$(ar{u}_R\gamma^\mu T^A c_R)(ar{d}_R\gamma_\mu T^A d_R)$	$^{\mathrm{C}}$
V8udRR_1222	$(\bar{u}_R \gamma^\mu T^A c_R)(\bar{s}_R \gamma_\mu T^A s_R)$	Č
V8udRR_1233	$(\bar{u}_R\gamma^{\mu}T^Ac_R)(\bar{b}_R\gamma_{\mu}T^Ab_R)$	$^{\circ}$ C
VeuLR_1112	$(ar{e}_L\gamma^{\mu}e_L)(ar{u}_R\gamma_{\mu}e_R)$	$\overset{\circ}{ ext{C}}$
VeuLR_2212	$(ar{\mu}_L\gamma^\mu\mu_L)(ar{u}_R\gamma_\mu c_R)$	$\overset{\circ}{\mathrm{C}}$
VeuLR_3312	$(ar{ au}_L\gamma^\mu au_L)(ar{u}_R\gamma_\mu c_R) \ (ar{ au}_L\gamma^\mu au_L)(ar{u}_R\gamma_\mu c_R)$	$\overset{\circ}{\mathrm{C}}$
VueLR_1211	$(ar{u}_L\gamma^\mu c_L)(ar{e}_R\gamma_\mu e_R)$	$\overset{\circ}{\mathrm{C}}$
VueLR_1222	$egin{array}{c} (ar{u}_L \gamma^\mu c_L) (ar{u}_R \gamma_\mu \mu_R) \ (ar{u}_L \gamma^\mu c_L) (ar{\mu}_R \gamma_\mu \mu_R) \end{array}$	$\overset{\circ}{\mathrm{C}}$
VueLR_1233	$egin{array}{l} (ar{u}_L\gamma^\mu c_L)(ar{\mu}_R\gamma_\mu au_R) \ (ar{u}_L\gamma^\mu c_L)(ar{ au}_R\gamma_\mu au_R) \end{array}$	$\overset{\circ}{\mathrm{C}}$
V1uuLR_1112	$(ar{u}_L\gamma^\mu u_L)(ar{u}_R\gamma_\mu r_R) \ (ar{u}_L\gamma^\mu u_L)(ar{u}_R\gamma_\mu c_R)$	$\overset{\circ}{\mathrm{C}}$
V1uuLR_1211	$(ar{u}_L\gamma^\mu c_L)(ar{u}_R\gamma_\mu u_R)$	$\overset{\circ}{\mathrm{C}}$
V1uuLR_1222	$(ar{u}_L\gamma^\mu c_L)(ar{c}_R\gamma_\mu c_R)$	$\overset{\circ}{\mathrm{C}}$
V1uuLR_2212	$(ar{c}_L\gamma^\mu c_L)(ar{u}_R\gamma_\mu c_R)$	Č
V8uuLR_1112	$(ar{u}_L\gamma^\mu T^A u_L)(ar{u}_R\gamma_\mu T^A c_R)$	Č
V8uuLR_1211	$(ar{u}_L\gamma^\mu T^Ac_L)(ar{u}_R\gamma_\mu T^Au_R)$	$^{ m C}$
V8uuLR_1222	$(ar{u}_L\gamma^\mu T^A c_L)(ar{c}_R\gamma_\mu T^A c_R)$	$^{ m C}$
V8uuLR_2212	$(ar{c}_L\gamma^\mu T^Ac_L)(ar{u}_R\gamma_\mu T^Ac_R)$	$^{ m C}$
V1udLR_1211	$(ar{u}_L\gamma^\mu c_L)(ar{d}_R\gamma_\mu d_R)$	$\mathbf{C}$
V1udLR_1222	$(ar{u}_L\gamma^\mu c_L)(ar{s}_R\gamma_\mu s_R)$	$^{ m C}$
V1udLR_1233	$ar{(ar{u}_L\gamma^\mu c_L)}ar{(ar{b}_R\gamma_\mu b_R)}$	Č
V8udLR_1211	$egin{aligned} (ar{u}_L\gamma^\mu T^A c_L) (ar{d}_R\gamma_\mu T^A d_R) \end{aligned}$	$\overset{\circ}{\mathrm{C}}$
V8udLR_1222	$(\bar{u}_L\gamma^{\mu}T^Ac_L)(\bar{s}_R\gamma_{\mu}T^As_R)$	$\overset{\circ}{\mathrm{C}}$
V8udLR_1233	$(ar{u}_L\gamma^\mu T^Ac_L)(ar{b}_R\gamma_\mu T^Ab_R)$	$\overset{\circ}{\mathrm{C}}$
V1duLR_1112	$(ar{d}_L\gamma^\mu d_L)(ar{u}_R\gamma_\mu c_R)$	$\overset{\circ}{ ext{C}}$
V1duLR_2212	$(ar{s}_L\gamma^\mu s_L)(ar{u}_R\gamma_\mu c_R) \ (ar{s}_L\gamma^\mu s_L)(ar{u}_R\gamma_\mu c_R)$	$\overset{\circ}{ ext{C}}$
V1duLR_3312	$(ar{b}_L\gamma^\mu b_L)(ar{u}_R\gamma_\mu c_R) \ (ar{b}_L\gamma^\mu b_L)(ar{u}_R\gamma_\mu c_R)$	C
V8duLR_1112	$(ar{d}_L\gamma^{\mu}T^Ad_L)(ar{u}_R\gamma_{\mu}T^Ac_R)$	C
V8duLR_2212	$(ar{a}_L)^{\mu} T^A s_L) (ar{u}_R \gamma_{\mu} T^A c_R) \ (ar{s}_L \gamma^{\mu} T^A s_L) (ar{u}_R \gamma_{\mu} T^A c_R)$	C
V8duLR_3312	$(\bar{b}_L\gamma^\mu T^A b_L)(\bar{u}_R\gamma_\mu T^A c_R) = (\bar{b}_L\gamma^\mu T^A b_L)(\bar{u}_R\gamma_\mu T^A c_R)$	C
V1udduLR_1112	$(ar{v}_L)^{\mu} = (ar{v}_L)^{\mu} (ar{u}_R)^{\mu} = (ar{v}_R)^{\mu} (ar{u}_L)^{\mu} (ar{d}_R)^{\mu} c_R)$	C
V1udduLR_1112 V1udduLR_1222	$egin{array}{l} (u_L\gamma^\mu u_L)(u_R\gamma_\mu c_R) \ (ar u_L\gamma^\mu s_L)(ar s_R\gamma_\mu c_R) \end{array}$	C
<del>-</del>	$egin{aligned} (u_L\gamma^{\epsilon} s_L)(s_R\gamma_{\mu}c_R) \ (ar{u}_L\gamma^{\mu}b_L)(ar{b}_R\gamma_{\mu}c_R) \end{aligned}$	C
V1udduLR_1332		C
V1udduLR_2111	$(\bar{c}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu u_R)$	C
V1udduLR_2221	$(\bar{c}_L \gamma^\mu s_L)(\bar{s}_R \gamma_\mu u_R)$	
V1udduLR_2331	$(\bar{c}_L \gamma^\mu b_L)(\bar{b}_R \gamma_\mu u_R)$	C
V8udduLR_1112	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A c_R)$	$^{\mathrm{C}}$

WC name	Operator	Type
V8udduLR_1222	$(\bar{u}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A c_R)$	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	$(\bar{c}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
SeuRL_1112	$(ar{e}_L e_R)(ar{u}_R c_L)$	$\mathbf{C}$
SeuRL_1121	$(ar{e}_L e_R)(ar{c}_R u_L)$	$\mathbf{C}$
SeuRL_2212	$(ar{\mu}_L\mu_R)(ar{u}_Rc_L)$	$^{\mathrm{C}}$
SeuRL_2221	$(ar{\mu}_L\mu_R)(ar{c}_Ru_L)$	$^{\mathrm{C}}$
SeuRL_3312	$(ar{ au}_L au_R)(ar{u}_Rc_L)$	$^{\mathrm{C}}$
SeuRL_3321	$(ar{ au}_L au_R)(ar{c}_Ru_L)$	$^{\mathrm{C}}$
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	$(ar{\mu}_L\mu_R)(ar{u}_Lc_R)$	$^{\mathrm{C}}$
SeuRR_2221	$(ar{\mu}_L\mu_R)(ar{c}_Lu_R)$	$^{\mathrm{C}}$
SeuRR_3312	$(ar{ au}_L au_R)(ar{u}_Lc_R)$	$\mathbf{C}$
SeuRR_3321	$(ar{ au}_L au_R)(ar{c}_Lu_R)$	$\mathbf{C}$
TeuRR_1112	$(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} c_R)$	$^{\mathrm{C}}$
TeuRR_1121	$(\bar{e}_L \sigma^{\mu  u} e_R)(\bar{c}_L \sigma_{\mu  u} u_R)$	$\mathbf{C}$
TeuRR_2212	$(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{u}_L \sigma_{\mu\nu} c_R)$	$\mathbf{C}$
TeuRR_2221	$(\bar{\mu}_L \sigma^{\mu\nu} \mu_R)(\bar{c}_L \sigma_{\mu\nu} u_R)$	$\mathbf{C}$
TeuRR_3312	$(ar au_L\sigma^{\mu u} au_R)(ar u_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
TeuRR_3321	$(ar{ au}_L\sigma^{\mu u} au_R)(ar{c}_L\sigma_{\mu u}u_R)$	$\mathbf{C}$
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	$(ar{c}_L u_R)(ar{c}_L c_R)$	$\mathbf{C}$
S8uuRR_1112	$(\bar{u}_L T^A u_R)(\bar{u}_L T^A c_R)$	$\mathbf{C}$
S8uuRR_1121	$(\bar{u}_L T^A u_R)(\bar{c}_L T^A u_R)$	$\mathbf{C}$
S8uuRR_1222	$(\bar{u}_L T^A c_R)(\bar{c}_L T^A c_R)$	$\mathbf{C}$
S8uuRR_2122	$(ar{c}_L T^A u_{R})(ar{c}_L T^A c_R)$	$\mathbf{C}$
S1udRR_1211	$(ar{u}_L c_R)(ar{d}_L d_R)$	$\mathbf{C}$
S1udRR_1222	$(\bar{u}_L c_R)(\bar{s}_L s_R)$	$\mathbf{C}$
S1udRR_1233	$(ar{u}_L c_R)(ar{b}_L b_R)$	$\mathbf{C}$
S1udRR_2111	$(ar{c}_L u_R)(ar{d}_L d_R)$	$^{\mathrm{C}}$
S1udRR_2122	$(ar{c}_L u_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
S1udRR_2133	$(ar{c}_L u_R)(ar{b}_L b_R)$	$\mathbf{C}$
S8udRR_1211	$(\bar{u}_L T^A c_R)(\bar{d}_L T^A d_R)$	$^{\mathrm{C}}$
S8udRR_1222	$(\bar{u}_L T^A c_R)(\bar{s}_L T^A s_R)$	$\mathbf{C}$
S8udRR_1233	$(ar{u}_L T^A c_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
	$(ar{c}_L T^A u_R) (ar{d}_L T^A d_R)$	$\mathbf{C}$
S8udRR_2122	$(ar{c}_L T^A u_R) (ar{s}_L T^A s_R)$	$\dot{ ext{C}}$
S8udRR_2133	$(ar{c}_L T^A u_R) (ar{b}_L T^A b_R)$	$\dot{ ext{C}}$
	(~L+ ~R)(~L+ ~R)	$\varepsilon$

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

#### ${\tt sbemu}$

WC name	Operator	Type
VedLL_1223	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_L \gamma_\mu b_L)$	$\mathbf{C}$
VedRR_1223	$(ar{e}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VedLR_1223	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu b_R)$	$\mathbf{C}$
VdeLR_2312	$(\bar{s}_L \gamma^\mu b_L)(\bar{e}_R \gamma_\mu \mu_R)$	C
SedRL_1223	$(ar{e}_L \mu_R)(ar{s}_R b_L)$	$\mathbf{C}$
SedRL_2132	$(ar{\mu}_L e_R)(ar{b}_R s_L)$	C
SedRR_1223	$(ar{e}_L\mu_R)(ar{s}_Lb_R)$	C
SedRR_2132	$(ar{\mu}_L e_R)(ar{b}_L s_R)$	$\mathbf{C}$
TedRR_1223	$(\bar{e}_L \sigma^{\mu  u} \mu_R) (\bar{s}_L \sigma_{\mu  u} b_R)$	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	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_L \gamma_\mu s_L)$	C
VedRR_1232	$(ar{e}_R \gamma^\mu \mu_R) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_1232	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
VdeLR_2321	$(\bar{s}_L\gamma^\mu b_L)(\bar{\mu}_R\gamma_\mu e_R)$	$^{\mathrm{C}}$
SedRL_1232	$(ar{e}_L\mu_R)(ar{b}_Rs_L)$	$\mathbf{C}$
SedRL_2123	$(ar{\mu}_L e_R)(ar{s}_R b_L)$	$\mathbf{C}$
SedRR_1232	$(ar{e}_L\mu_R)(ar{b}_Ls_R)$	$\mathbf{C}$
SedRR_2123	$(ar{\mu}_L e_R)(ar{s}_L b_R)$	$\mathbf{C}$
TedRR_1232	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}s_R)$	$\mathbf{C}$

WC name	Operator	Type
TedRR_2123	$(ar{\mu}_L \sigma^{\mu u} e_R) (ar{s}_L \sigma_{\mu u} b_R)$	С

# ${\tt sbetau}$

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

# sbtaue

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

#### sbmutau

WC name	Operator	Type
VedLL_2323	$(ar{\mu}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu b_L)$	C
VedRR_2323	$(ar{\mu}_R \gamma^\mu  au_R) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VedLR_2323	$(ar{\mu}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VdeLR_2323	$(ar{s}_L \gamma^\mu b_L) (ar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
SedRL_2323	$(ar{\mu}_L au_R)(ar{s}_Rb_L)$	$^{\mathrm{C}}$

WC name	Operator	Type
SedRL_3232	$(ar{ au}_L \mu_R)(ar{b}_R s_L)$	С
SedRR_2323	$(ar{\mu}_L au_R)(ar{s}_Lb_R)$	$\mathbf{C}$
SedRR_3232	$(ar{ au}_L \mu_R) (ar{b}_L s_R)$	$\mathbf{C}$
TedRR_2323	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{s}_L \sigma_{\mu  u} b_R)$	$\mathbf{C}$
TedRR_3232	$(\bar{ au}_L \sigma^{\mu u} \mu_R) (\bar{b}_L \sigma_{\mu u} s_R)$	С

# ${\tt sbtaumu}$

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

#### dbemu

WC name	Operator	Type
VedLL_1213	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_L \gamma_\mu b_L)$	$\overline{C}$
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	$(ar{e}_L\mu_R)(ar{d}_Rb_L)$	$\mathbf{C}$
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	$(\bar{\mu}_L \sigma^{\mu  u} e_R) (\bar{b}_L \sigma_{\mu  u} d_R)$	С

# ${\tt dbmue}$

WC name	Operator	Type
VedLL 1231	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{b}_L \gamma_\mu d_L)$	

WC name	Operator	Type
VedRR_1231	$(ar{e}_R \gamma^\mu \mu_R) (ar{b}_R \gamma_\mu d_R)$	C
VedLR_1231	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
VdeLR_1321	$(ar{d}_L \gamma^\mu b_L) (ar{\mu}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
SedRL_1231	$(ar{e}_L \mu_R) (ar{b}_R d_L)$	$^{\mathrm{C}}$
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	$(ar{\mu}_L \sigma^{\mu u} e_R) (ar{d}_L \sigma_{\mu u} b_R)$	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	$(ar{d}_L \gamma^\mu b_L) (ar{e}_R \gamma_\mu  au_R)$	C
SedRL_1313	$(ar{e}_L au_R)(ar{d}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3131	$(ar{ au}_L e_R)(ar{b}_R d_L)$	$\mathbf{C}$
SedRR_1313	$(ar{e}_L au_R)(ar{d}_Lb_R)$	$\mathbf{C}$
SedRR_3131	$(ar{ au}_L e_R)(ar{b}_L d_R)$	$^{\mathrm{C}}$
TedRR_1313	$(ar{e}_L\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}b_R)$	$\mathbf{C}$
TedRR_3131	$(ar{ au}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}d_R)$	$^{\mathrm{C}}$

# ${\tt dbtaue}$

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	$(ar{d}_L\gamma^\mu b_L)(ar{ au}_R\gamma_\mu e_R)$	$^{\mathrm{C}}$
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	$(ar{e}_R\gamma^\mu\mu_R)(ar{d}_R\gamma_\mu s_R)$	$\mathbf{C}$
VedLR_1212	$(ar{e}_L \gamma^\mu \mu_L) (ar{d}_R \gamma_\mu s_R)$	$\mathbf{C}$
VdeLR_1212	$(ar{d}_L \gamma^\mu s_L) (ar{e}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
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	$(ar{e}_L\mu_R)(ar{d}_Ls_R)$	$\mathbf{C}$
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	$(ar{u}_L \gamma^\mu c_L) (ar{e}_R \gamma_\mu \mu_R)$	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

	Operator	Type
egamma_23	$\bar{\mu}_L \sigma^{\mu\nu} \tau_R F_{\mu\nu}$	C
egamma_32	$ar{ au}_L \sigma^{\mu u} \mu_R  F_{\mu u}$	$^{\mathrm{C}}$
VeeLL_1123	$(ar{e}_L\gamma^\mu e_L)(\dot{ar{\mu}}_L\gamma_\mu au_L)$	$^{\mathrm{C}}$
VeeLL_2223	$(ar{\mu}_L \gamma^\mu \mu_L)(ar{\mu}_L \gamma_\mu  au_L)$	$^{\mathrm{C}}$
VeeLL_2333	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_L \gamma_\mu  au_L)$	$^{\mathrm{C}}$
VnueLL_1123	$(ar u_{eL}\gamma^\mu u_{eL})(ar\mu_L\gamma_\mu au_L)$	$^{\mathrm{C}}$
VnueLL_2223	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{\mu}_L \gamma_{\mu}  au_L)$	$^{\mathrm{C}}$
VnueLL_3323	$(ar u_{ au L} \gamma^\mu  u_{ au L}) (ar\mu_L \gamma_\mu  au_L)$	$^{\mathrm{C}}$
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	$(ar{\mu}_R \gamma^\mu \mu_R)(ar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeRR_2333	$(ar{\mu}_R \gamma^\mu  au_R) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
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	$(ar{\mu}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
VnueLR_1123	$(ar u_{eL}\gamma^\mu u_{eL})(ar\mu_R\gamma_\mu au_R)$	$\mathbf{C}$
VnueLR_2223	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{\mu}_R \gamma_{\mu}  au_R)$	$\mathbf{C}$
VnueLR_3323	$(ar u_{ au L} \gamma^\mu  u_{ au L}) (ar\mu_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_1123	$(ar{e}_L \gamma^\mu e_L) (ar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
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	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
VeeLR_2311	$(ar{\mu}_L \gamma^\mu  au_L) (ar{e}_R \gamma_\mu e_R)$	$\mathbf{C}$
VeeLR_2322	$(ar{\mu}_L \gamma^\mu  au_L) (ar{\mu}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VeeLR_2333	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeLR_3323	$(ar{ au}_L \gamma^\mu  au_L)(ar{\mu}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
VeuLR_2311	$(\bar{\mu}_L \gamma^\mu  au_L)(\bar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
VeuLR_2322	$(ar{\mu}_L \gamma^\mu  au_L) (ar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
VedLR_2311	$(ar{\mu}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedLR_2322	$(ar{\mu}_L \gamma^\mu  au_L)(ar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedLR_2333	$(ar{\mu}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
- VueLR_1123	$(\bar{u}_L \gamma^\mu u_L)(\bar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
	$(\bar{c}_L \gamma^\mu c_L)(\bar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
- VdeLR_1123	$(ar{d}_L\gamma^\mu d_L)(ar{\mu}_R\gamma_\mu au_R)$	$^{\mathrm{C}}$
VdeLR_2223	$(ar s_L\gamma^\mu s_L)(ar\mu_R\gamma_\mu au_R)$	C
VdeLR_3323	$(ar{b}_L\gamma^\mu b_L)(ar{\mu}_R\gamma_\mu au_R)$	C

WC name	Operator	Type
SeuRL_2311	$(ar{\mu}_L au_R)(ar{u}_Ru_L)$	C
SeuRL_2322	$(ar{\mu}_L au_R)(ar{c}_Rc_L)$	$\mathbf{C}$
SeuRL_3211	$(ar{ au}_L\mu_R)(ar{u}_Ru_L)$	$\mathbf{C}$
SeuRL_3222	$(ar{ au}_L\mu_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$
SedRL_2311	$(ar{\mu}_L au_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$
SedRL_2322	$(ar{\mu}_L au_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
SedRL_2333	$(ar{\mu}_L au_R)(ar{b}_Rb_L)$	$^{\mathrm{C}}$
SedRL_3211	$(ar{ au}_L\mu_R)(ar{d}_Rd_L)$	$^{\mathrm{C}}$
SedRL_3222	$(ar{ au}_L\mu_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
SedRL_3233	$(ar au_L\mu_R)(ar b_Rb_L)$	$\mathbf{C}$
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	$(ar{e}_L\mu_R)(ar{ au}_Le_R)$	$\mathbf{C}$
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	$(ar au_L\mu_R)(ar au_L au_R)$	$\mathbf{C}$
SeuRR_2311	$(ar{\mu}_L au_R)(ar{u}_Lu_R)$	$^{\mathrm{C}}$
SeuRR_2322	$(ar{\mu}_L au_R)(ar{c}_Lc_R)$	$^{\mathrm{C}}$
SeuRR_3211	$(ar{ au}_L\mu_R)(ar{u}_Lu_R)$	$^{\mathrm{C}}$
SeuRR_3222	$(ar{ au}_L\mu_R)(ar{c}_Lc_R)$	$\mathbf{C}$
TeuRR_2311	$(\bar{\mu}_L \sigma^{\mu\nu} \tau_R) (\bar{u}_L \sigma_{\mu\nu} u_R)$	$^{\mathrm{C}}$
TeuRR_2322	$(ar{\mu}_L \sigma^{\mu  u}  au_R) (ar{c}_L \sigma_{\mu  u} c_R)$	$^{\mathrm{C}}$
TeuRR_3211	$(\bar{ au}_L \sigma^{\mu u} \mu_R) (\bar{u}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$
TeuRR_3222	$(ar{ au}_L\sigma^{\mu u}\mu_{ar{R}})(ar{c}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
SedRR_2311	$(ar{\mu}_L au_R)(d_Ld_R)$	$^{\mathrm{C}}$
SedRR_2322	$(ar{\mu}_L au_R)(ar{ar{s}}_Ls_R)$	$^{\mathrm{C}}$
SedRR_2333	$(ar{\mu}_L au_R)(ar{b}_Lb_R)$	$^{\mathrm{C}}$
SedRR_3211	$(ar au_L\mu_R)(ar d_Ld_R)$	$\mathbf{C}$
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	$(\bar{\mu}_L \sigma^{\mu  u}  au_R) (\bar{s}_L \sigma_{\mu  u} s_R)$	$^{\mathrm{C}}$
TedRR_2333	$(ar{\mu}_L \sigma^{\mu u}  au_R) (ar{b}_L \sigma_{\mu u} b_R)$	$\mathbf{C}$
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	$(ar{ au}_L\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}b_R)$	C

mue

WC name	Operator	Type
egamma_12	$\bar{e}_L \sigma^{\mu\nu} \mu_R F_{\mu\nu}$	C
egamma_21	$ar{\mu}_L \sigma^{\mu  u} e_R F_{\mu  u}$	$\overset{\circ}{\mathrm{C}}$
VeeLL_1112	$(ar{e}_L\gamma^\mu e_L)(ar{e}_L\gamma_\mu\mu_L)$	Č
VeeLL_1222	$(ar{e}_L\gamma^\mu\mu_L)(ar{\mu}_L\gamma_\mu\mu_L) \ (ar{e}_L\gamma^\mu\mu_L)(ar{\mu}_L\gamma_\mu\mu_L)$	Č
VeeLL_1233	$(ar{e}_L\gamma^\mu\mu_L)(ar{ au}_L\gamma_\mu au_L) \ (ar{e}_L\gamma^\mu\mu_L)(ar{ au}_L\gamma_\mu au_L)$	$\overset{\circ}{\mathrm{C}}$
VnueLL_1112	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{L}\gamma_{\mu}\mu_{L})$	$\dot{\mathrm{C}}$
VnueLL_2212	$(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu}\mu_{L})$	$\dot{\mathrm{C}}$
VnueLL_3312	$(\bar{ u}_{ au L}\gamma^{\mu} u_{ au L})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	$\dot{\mathrm{C}}$
	$(ar{e}_L\gamma^\mu\mu_L)(ar{u}_L\gamma_\mu u_L)$	$^{\mathrm{C}}$
VeuLL_1222	$(ar{e}_L\gamma^\mu\mu_L)(ar{c}_L\gamma_\mu c_L)$	$^{\mathrm{C}}$
VedLL_1211	$(ar{e}_L\gamma^\mu\mu_L)(ar{d}_L\gamma_\mu d_L)$	$^{\mathrm{C}}$
_ VedLL_1222	$(ar{e}_L\gamma^\mu\mu_L)(ar{s}_L\gamma_\mu s_L)$	$^{\mathrm{C}}$
_ VedLL_1233	$(ar{e}_L\gamma^\mu\mu_L)(ar{b}_L\gamma_\mu b_L)$	$^{\mathrm{C}}$
VeeRR_1112	$(\bar{e}_R\gamma^\mu e_R)(\bar{e}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
VeeRR_1222	$(\bar{e}_R\gamma^\mu\mu_R)(\bar{\mu}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
VeeRR_1233	$(ar{e}_R\gamma^\mu\mu_R)(ar{ au}_R\gamma_\mu au_R)$	$\mathbf{C}$
VeuRR_1211	$(ar{e}_R\gamma^\mu\mu_R)(ar{u}_R\gamma_\mu u_R)$	$\mathbf{C}$
VeuRR_1222	$(ar{e}_R\gamma^\mu\mu_R)(ar{c}_R\gamma_\mu c_R)$	$\mathbf{C}$
VedRR_1211	$(ar{e}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{C}$
VedRR_1222	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{s}_R \gamma_\mu s_R)$	$\mathbf{C}$
VedRR_1233	$(ar{e}_R\gamma^\mu\mu_R)(ar{b}_R\gamma_\mu b_R)$	$\mathbf{C}$
VnueLR_1112	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu}\mu_{R})$	$\mathbf{C}$
VnueLR_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_R \gamma_{\mu} \mu_R)$	$\mathbf{C}$
VnueLR_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$
VeeLR_1112	$(ar{e}_L \gamma^\mu e_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VeeLR_1211	$(ar{e}_L \gamma^\mu \mu_L) (ar{e}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
VeeLR_1222	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VeeLR_1233	$(ar{e}_L \gamma^\mu \mu_L) (ar{ au}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
VeeLR_1332	$(ar{e}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VeeLR_2212	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VeeLR_2331	$(ar{\mu}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu e_R)$	$^{\mathrm{C}}$
VeeLR_3312	$(\bar{ au}_L\gamma^\mu au_L)(\bar{e}_R\gamma_\mu\mu_R)$	$^{\mathrm{C}}$
VeuLR_1211	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{u}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
VeuLR_1222	$(\bar{e}_L \gamma^\mu \mu_L)(\bar{c}_R \gamma_\mu c_R)$	$^{\mathrm{C}}$
VedLR_1211	$(\bar{e}_L \gamma^\mu \mu_L) (d_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VedLR_1222	$(ar{e}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VedLR_1233	$(ar{e}_L \gamma^\mu \mu_L) (ar{b}_R \gamma_\mu b_R)$	С
VueLR_1112	$(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VueLR_2212	$(\bar{c}_L \gamma^\mu c_L)(\bar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VdeLR_1112	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu \mu_R)$	$^{\mathrm{C}}$
VdeLR_2212	$(ar{s}_L\gamma^\mu s_L)(ar{e}_R\gamma_\mu\mu_R)$	C
VdeLR_3312	$(ar{b}_L\gamma^\mu b_L)(ar{e}_R\gamma_\mu\mu_R)$	C
SeuRL_1211	$(ar{e}_L\mu_R)(ar{u}_Ru_L)$	C
SeuRL_1222	$(ar{e}_L\mu_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$

WC name	Operator	Type
SeuRL_2111	$(ar{\mu}_L e_R)(ar{u}_R u_L)$	C
SeuRL_2122	$(ar{\mu}_L e_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$
SedRL_1211	$(ar{e}_L \mu_R) (ar{d}_R d_L)$	$^{\mathrm{C}}$
SedRL_1222	$(ar{e}_L \mu_R)(ar{s}_R s_L)$	$\mathbf{C}$
SedRL_1233	$(ar{e}_L \mu_R) (ar{b}_R b_L)$	$^{\mathrm{C}}$
SedRL_2111	$(ar{\mu}_L e_R)(ar{d}_R d_L)$	$^{\mathrm{C}}$
SedRL_2122	$(ar{\mu}_L e_R)(ar{s}_R s_L)$	$\mathbf{C}$
SedRL_2133	$(ar{\mu}_L e_R)(ar{b}_R b_L)$	$\mathbf{C}$
SeeRR_1112	$(ar{e}_L e_R)(ar{e}_L \mu_R)$	$^{\mathrm{C}}$
SeeRR_1121	$(ar{e}_L e_R)(ar{\mu}_L e_R)$	$\mathbf{C}$
SeeRR_1222	$(ar{e}_L\mu_R)(ar{\mu}_L\mu_R)$	$^{\mathrm{C}}$
SeeRR_1233	$(ar{e}_L \mu_R)(ar{ au}_L  au_R)$	$^{\mathrm{C}}$
SeeRR_1332	$(ar{e}_L au_R)(ar{ au}_L\mu_R)$	$\mathbf{C}$
SeeRR_2122	$(ar{\mu}_L e_R)(ar{\mu}_L \mu_R)$	$\mathbf{C}$
SeeRR_2133	$(ar{\mu}_L e_R)(ar{ au}_L  au_R)$	$\mathbf{C}$
SeeRR_2331	$(ar{\mu}_L au_R)(ar{ au}_Le_R)$	$^{\mathrm{C}}$
SeuRR_1211	$(ar{e}_L\mu_R)(ar{u}_Lu_R)$	$\mathbf{C}$
SeuRR_1222	$(ar{e}_L\mu_R)(ar{c}_Lc_R)$	C
SeuRR_2111	$(ar{\mu}_L e_R)(ar{u}_L u_R)$	C
SeuRR_2122	$(ar{\mu}_L e_R)(ar{c}_L c_R)$	C
TeuRR_1211	$(\bar{e}_L \sigma^{\mu  u}_{\mu R})(\bar{u}_L \sigma_{\mu  u} u_R)$	$_{ ilde{\mathbf{C}}}$
TeuRR_1222	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{c}_L\sigma_{\mu u}c_R)$	$_{ ilde{\mathbf{C}}}$
TeuRR_2111	$(\bar{\mu}_L \sigma^{\mu  u} e_R)(\bar{u}_L \sigma_{\mu  u} u_R)$	C
TeuRR_2122	$(ar{\mu}_L \sigma^{\mu  u} e_R) (ar{c}_L \sigma_{\mu  u} c_R)$	C
SedRR_1211	$(ar{e}_L\mu_R)(d_Ld_R)$	C
SedRR_1222	$(\bar{e}_L\mu_R)(\bar{s}_Ls_R)$	C
SedRR_1233	$(ar{e}_L\mu_R)(ar{b}_{\! L}b_R)$	$^{\mathrm{C}}$
SedRR_2111	$(ar{\mu}_L e_R)(d_L d_R)$	$^{\mathrm{C}}$
SedRR_2122	$(ar{\mu}_L e_R)(ar{s}_L s_R)$	$^{\mathrm{C}}$
SedRR_2133	$(ar{\mu}_L e_R)(ar{b}_L b_R)$	$\mathbf{C}$
TedRR_1211	$(ar{e}_L\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}d_R)$	$\mathbf{C}$
TedRR_1222	$(\bar{e}_L \sigma^{\mu  u} \mu_R) (\bar{s}_L \sigma_{\mu  u} s_R)$	$\mathbf{C}$
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	$(\bar{\mu}_L \sigma^{\mu \nu} e_R)(\bar{s}_L \sigma_{\mu \nu} s_R)$	$^{\mathrm{C}}$
TedRR_2133	$(\bar{\mu}_L \sigma^{\mu\nu} e_R)(\bar{b}_L \sigma_{\mu\nu} b_R)$	C

## taue

WC name	Operator	Type
egamma_13	$ar{e}_L \sigma^{\mu u}  au_R  F_{\mu u}$	С
egamma_31	$ar{ au}_L \sigma^{\mu u} e_R F_{\mu u}$	С

WC name	Operator	Type
VeeLL_1113	$(\bar{e}_L\gamma^{\mu}e_L)(\bar{e}_L\gamma_{\mu} au_L)$	C
VeeLL_1223	$(ar{e}_L\gamma^\mu\mu_L)(ar{\mu}_L\gamma_\mu au_L)$	$\mathbf{C}$
VeeLL_1333	$(ar{e}_L\gamma^\mu au_L)(ar{ au}_L\gamma_\mu au_L)$	$^{\mathrm{C}}$
VnueLL_1113	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
VnueLL_2213	$(ar{ u}_{\mu L}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu} au_{L})$	$\mathbf{C}$
VnueLL_3313	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu}  au_L)$	$^{\mathrm{C}}$
VeuLL_1311	$(ar{e}_L \gamma^\mu  au_L) (ar{u}_L \gamma_\mu u_L)$	$\mathbf{C}$
VeuLL_1322	$(ar{e}_L \gamma^\mu  au_L)(ar{c}_L \gamma_\mu c_L)$	C
VedLL_1311	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{C}$
VedLL_1322	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_L \gamma_\mu s_L)$	$^{\mathrm{C}}$
VedLL_1333	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{C}$
VeeRR_1113	$(ar{e}_R\gamma^\mu e_R)(ar{e}_R\gamma_\mu au_R)$	$\mathbf{C}$
VeeRR_1223	$(\bar{e}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu  au_R)$	$\mathbf{C}$
VeeRR_1333	$(ar{e}_R \gamma^\mu  au_R) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{C}$
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	$(ar{e}_R \gamma^\mu  au_R) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{C}$
VnueLR_1113	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu} au_{R})$	$\mathbf{C}$
VnueLR_2213	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_R \gamma_{\mu}  au_R)$	$\mathbf{C}$
VnueLR_3313	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{e}_R \gamma_{\mu}  au_R)$	$\mathbf{C}$
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	$(\bar{e}_L \gamma^\mu  au_L)(\bar{ au}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
VeeLR_2213	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{e}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
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	$(\bar{e}_L \gamma^\mu  au_L)(\bar{u}_R \gamma_\mu u_R)$	$\mathbf{C}$
VeuLR_1322	$(\bar{e}_L \gamma^\mu  au_L)(\bar{c}_R \gamma_\mu c_R)$	$\mathbf{C}$
VedLR_1311	$(ar{e}_L \gamma^\mu  au_L) (ar{d}_R \gamma_\mu d_R)$	$^{\mathrm{C}}$
VedLR_1322	$(ar{e}_L \gamma^\mu  au_L) (ar{s}_R \gamma_\mu s_R)$	$^{\mathrm{C}}$
VedLR_1333	$(ar{e}_L \gamma^\mu  au_L) (ar{b}_R \gamma_\mu b_R)$	$^{\mathrm{C}}$
VueLR_1113	$(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu \tau_R)$	$^{\mathrm{C}}$
VueLR_2213	$(ar{c}_L \gamma^\mu c_L) (ar{e}_R \gamma_\mu  au_R)$	$^{\mathrm{C}}$
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	$(ar{e}_L au_R)(ar{u}_Ru_L)$	$^{\mathrm{C}}$
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	$(ar{ au}_L e_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$

WC name	Operator	Type
SedRL_1311	$(ar{e}_L au_R)(ar{d}_Rd_L)$	C
SedRL_1322	$(ar{e}_L au_R)(ar{s}_Rs_L)$	$^{\mathrm{C}}$
SedRL_1333	$(ar{e}_L au_R)(ar{b}_Rb_L)$	$\mathbf{C}$
SedRL_3111	$(ar{ au}_L e_R)(ar{d}_R d_L)$	$^{\mathrm{C}}$
SedRL_3122	$(ar{ au}_L e_R)(ar{s}_R s_L)$	$^{\mathrm{C}}$
SedRL_3133	$(ar{ au}_L e_R)(ar{b}_R b_L)$	$^{\mathrm{C}}$
SeeRR_1113	$(ar{e}_L e_R)(ar{e}_L  au_R)$	$^{\mathrm{C}}$
SeeRR_1131	$(ar{e}_L e_R)(ar{ au}_L e_R)$	$^{\mathrm{C}}$
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	$(ar{\mu}_L \mu_R)(ar{ au}_L e_R)$	$^{\mathrm{C}}$
SeeRR_3133	$(ar{ au}_L e_R)(ar{ au}_L  au_R)$	$^{\mathrm{C}}$
SeuRR_1311	$(ar{e}_L au_R)(ar{u}_Lu_R)$	$\mathbf{C}$
SeuRR_1322	$(ar{e}_L au_R)(ar{c}_Lc_R)$	$\mathbf{C}$
SeuRR_3111	$(ar{ au}_L e_R)(ar{u}_L u_R)$	$\mathbf{C}$
SeuRR_3122	$(ar{ au}_L e_R)(ar{c}_L c_R)$	$\mathbf{C}$
TeuRR_1311	$(ar{e}_L\sigma^{\mu u} au_R)(ar{u}_L\sigma_{\mu u}u_R)$	C
TeuRR_1322	$(ar{e}_L\sigma^{\mu u} au_R)(ar{c}_L\sigma_{\mu u}c_R)$	C
TeuRR_3111	$(\bar{ au}_L\sigma^{\mu u}e_R)(\bar{u}_L\sigma_{\mu u}u_R)$	C
TeuRR_3122	$(ar{ au}_L\sigma^{\mu u}e_{ar{R}})(ar{c}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
SedRR_1311	$(ar{e}_L au_R)(d_Ld_R)$	$^{\mathrm{C}}$
SedRR_1322	$(ar{e}_L au_R)(ar{s}_Ls_R)$	$^{\mathrm{C}}$
SedRR_1333	$(ar{e}_L au_R)(b_{\! L}b_R)$	$\mathbf{C}$
SedRR_3111	$(ar{ au}_L e_R)(d_L d_R)$	$\mathbf{C}$
SedRR_3122	$(ar{ au}_L e_R)(ar{s}_L s_R)$	$\mathbf{C}$
SedRR_3133	$(ar{ au}_L e_R)(b_L b_{R})$	$\mathbf{C}$
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	$(ar{e}_L \sigma^{\mu u}  au_R) (ar{b}_L \sigma_{\mu u} b_R)$	$^{\mathrm{C}}$
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	$(ar au_L\sigma^{\mu u}e_R)(ar b_L\sigma_{\mu u}b_R)$	C

#### 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	$(\bar{e}_L  au_R)(\bar{e}_L  au_R)$	$\mathbf{C}$

WC name	Operator	Type
SeeRR_3131	$(\bar{\tau}_L e_R)(\bar{\tau}_L e_R)$	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	$(\bar{ au}_L\mu_R)(\bar{ au}_L\mu_R)$	С

# 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	$(\bar{\mu}_L e_R)(\bar{\mu}_L e_R)$	С

#### ${\tt muemutau}$

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	$(\bar{\mu}_L e_R)(\bar{\mu}_L \tau_R)$	С

# $\verb"etauemu"$

WC name	Operator	Type
VeeLL_1213 VeeRR_1213 VeeLR_1213	$\begin{array}{c} (\bar{e}_L \gamma^\mu \mu_L) (\bar{e}_L \gamma_\mu \tau_L) \\ (\bar{e}_R \gamma^\mu \mu_R) (\bar{e}_R \gamma_\mu \tau_R) \\ (\bar{e}_L \gamma^\mu \mu_L) (\bar{e}_R \gamma_\mu \tau_R) \end{array}$	C C C

WC name	Operator	Type
VeeLR_1312	$(\bar{e}_L \gamma^\mu \tau_L)(\bar{e}_R \gamma_\mu \mu_R)$	С
SeeRR_1213	$(\bar{e}_L \mu_R)(\bar{e}_L  au_R)$	$\mathbf{C}$
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	$(\bar{ au}_L e_R)(\bar{ au}_L \mu_R)$	$\mathbf{C}$

#### nunununu

WC name	Operator	Type
VnunuLL_1112	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{ u}_{eL}\gamma_{\mu} u_{\mu L})$	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	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ u}_{eL}\gamma_{\mu} u_{ au L})$	$^{\mathrm{C}}$
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	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{ u}_{\mu L} \gamma_{\mu}  u_{ au L})$	$^{\mathrm{C}}$
VnunuLL_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ u}_{ au L} \gamma_{\mu}  u_{ au L})$	$^{\mathrm{C}}$
VnunuLL_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{ au L}\gamma_{\mu} u_{\mu L})$	$^{\mathrm{C}}$
VnunuLL_1323	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ u}_{\mu L}\gamma_{\mu} u_{ au L})$	$^{\mathrm{C}}$
VnunuLL_1213	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{eL}\gamma_{\mu} u_{ au L})$	$^{\mathrm{C}}$
VnunuLL_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{eL}\gamma_{\mu} u_{\mu L})$	$^{\mathrm{C}}$
VnunuLL_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ u}_{eL}\gamma_{\mu} u_{ au L})$	$^{\mathrm{C}}$
VnunuLL_2323	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{ u}_{\mu L} \gamma_{\mu}  u_{ au L})$	С

#### nunuemu

WC name	Operator	Type
VnueLL_1212	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{e}_{L}\gamma_{\mu}\mu_{L})$	C
VnueLR_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu}\mu_{R})$	$\mathbf{C}$

WC name	Operator	Type
VnueLL_1312	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{e}_L\gamma_{\mu}\mu_L)$	С
VnueLR_1312	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{e}_R\gamma_{\mu}\mu_R)$	$^{\mathrm{C}}$
VnueLL_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_L \gamma_{\mu} e_L)$	$^{\mathrm{C}}$
VnueLR_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_R \gamma_{\mu} e_R)$	C

# nunumue

WC name	Operator	Type
VnueLL_1221	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{\mu}_{L}\gamma_{\mu}e_{L})$	$\overline{C}$
VnueLR_1221	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{\mu}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
VnueLL_1321	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu}e_{L})$	$^{\mathrm{C}}$
VnueLR_1321	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{\mu}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
VnueLL_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu} \mu_L)$	$^{\mathrm{C}}$
VnueLR_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$

#### nunutaumu

WC name	Operator	Type
VnueLL_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	C
VnueLR_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
VnueLL_1332	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}\mu_{L})$	$\mathbf{C}$
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	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_R \gamma_{\mu}  au_R)$	$\mathbf{C}$

#### nunumutau

WC name	Operator	Type
VnueLL_1223	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{L}\gamma_{\mu} au_{L})$	C
VnueLR_1223	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{\mu}_{R}\gamma_{\mu} au_{R})$	$^{\mathrm{C}}$
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	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_{L} \gamma_{\mu} \mu_{L})$	$\mathbf{C}$
VnueLR_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_R \gamma_{\mu} \mu_R)$	C

## nunutaue

WC name	Operator	Type
VnueLL_1231	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	C
VnueLR_1231	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu}e_{R})$	$\mathbf{C}$
VnueLL_1331	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu}e_{L})$	$\mathbf{C}$
VnueLR_1331	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{ au}_{R}\gamma_{\mu}e_{R})$	$\mathbf{C}$
VnueLL_2313	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu}  au_L)$	$\mathbf{C}$
VnueLR_2313	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (\bar{e}_R \gamma_{\mu}  au_R)$	C

# ${\tt nunuetau}$

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

# dF=0

WC name	Operator	Type
egamma_11	$ar{e}_L \sigma^{\mu  u} e_R  F_{\mu  u}$	C
egamma_22	$ar{\mu}_L \sigma^{\mu u} \mu_R  \dot{F}_{\mu u}$	$^{\mathrm{C}}$
egamma_33	$ar{ au}_L \sigma^{\mu u}  au_R  F_{\mu u}$	$^{\mathrm{C}}$
ugamma_11	$ar{u}_L \sigma^{\mu u} u_R  \dot{F}_{\mu u}$	$^{\mathrm{C}}$
ugamma_22	$ar{c}_L \sigma^{\mu u} c_R  F_{\mu u}$	$^{\mathrm{C}}$
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	$ar{b}_L \sigma^{\mu u} b_R  F_{\mu u}$	$^{\mathrm{C}}$
uG_11	$ar{u}_L \sigma^{\mu u} T^A u_R  G^A_{\mu u}$	$^{\mathrm{C}}$
uG_22	$ar{c}_L \sigma^{\mu u} T^A c_R  G^{\dot{A}}_{\mu u}$	$^{\mathrm{C}}$
dG_11	$ar{d}_L \sigma^{\mu u} T^A d_R  G^A_{\mu u}$	$^{\mathrm{C}}$
dG_22	$ar{s}_L \sigma^{\mu u} T^A s_R G^A_{\mu u}$	$^{\mathrm{C}}$
dG_33	$ar{b}_L \sigma^{\mu u} T^A b_R  G^A_{\mu u}$	$^{\mathrm{C}}$
G	$f^{ABC}G^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ u}$	${ m R}$
Gtilde	$f^{ABC} \widetilde{G}^{A u}_{\mu} G^{B ho}_{ u} G^{C\mu}_{ u}$	${ m R}$
VnunuLL_1111	$(ar{ u}_{eL}\gamma^{\mu}ar{ u}_{eL})(ar{ u}_{eL}\gamma_{\mu} u_{eL})$	${ m R}$
VnunuLL_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ u}_{\mu L}\gamma_{\mu} u_{\mu L})$	${ m R}$
VnunuLL_1133	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ u}_{ au L}\gamma_{\mu} u_{ au L})$	R
VnunuLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{ u}_{\mu L} \gamma_{\mu}  u_{\mu L})$	R
VnunuLL_2233	$(\bar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (\bar{ u}_{\tau L} \gamma_{\mu}  u_{\tau L})$	R

WC name	Operator	Type
VnunuLL_3333	$(\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L}) (\bar{\nu}_{\tau L} \gamma_{\mu} \nu_{\tau L})$	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	$(ar{e}_L \gamma^\mu e_L) (ar{ au}_L \gamma_\mu  au_L)$	R
VeeLL_2222	$(\bar{\mu}_L \gamma^\mu \mu_L)(\bar{\mu}_L \gamma_\mu \mu_L)$	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
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
VnueLL_2233	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{ au}_L \gamma_{\mu}  au_L)$	R
VnueLL_3311	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu} e_L)$	R
VnueLL_3322	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_{L} \gamma_{\mu} \mu_{L})$	R
VnueLL_3333	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{ au}_{L} \gamma_{\mu}  au_{L})$	R
VnuuLL_1111	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{u}_{L}\gamma_{\mu}u_{L})$	R
VnuuLL_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{c}_{L}\gamma_{\mu}c_{L})$	R
VnuuLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{u}_L \gamma_{\mu} u_L)$	R
VnuuLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{c}_L \gamma_{\mu} c_L)$	R
VnuuLL_3311	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{u}_{L} \gamma_{\mu} u_{L})$	$\mathbf{R}$
VnuuLL_3322	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{c}_{L} \gamma_{\mu} c_{L})$	R
VnudLL_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(d_L\gamma_{\mu}d_L)$	R
VnudLL_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\underline{s}}_{L}\gamma_{\mu}s_{L})$	R
VnudLL_1133	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{b}_{ar{L}}\gamma_{\mu}b_{L})$	R
VnudLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (d_L \gamma_{\mu} d_L)$	R
VnudLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{\underline{s}}_L \gamma_{\mu} s_L)$	R
VnudLL_2233	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (b_L \gamma_{\mu} b_L)$	R
VnudLL_3311	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} d_L)$	R
VnudLL_3322	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} s_L)$	R
VnudLL_3333	$(ar u_{ au L} \gamma^\mu  u_{ au L}) (ar b_L \gamma_\mu b_L)$	R
VeuLL_1111	$(ar{e}_L \gamma^\mu e_L) (ar{u}_L \gamma_\mu u_L)$	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	$(ar{e}_L \gamma^\mu e_L) (ar{d}_L \gamma_\mu d_L)$	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
VedLL_2222	$(ar{\mu}_L \gamma^\mu \mu_L)(ar{s}_L \gamma_\mu s_L)$	R
VedLL_2233	$(ar{\mu}_L \gamma^\mu \mu_L)(ar{b}_L \gamma_\mu b_L)$	${ m R}$

WC name	Operator	Type
VedLL_3311	$(ar{ au}_L \gamma^\mu  au_L) (ar{d}_L \gamma_\mu d_L)$	R
VedLL_3322	$(ar au_L\gamma^\mu au_L)(ar s_L\gamma_\mu s_L)$	R
VedLL_3333	$(ar au_L\gamma^\mu au_L)(ar b_L\gamma_\mu b_L)$	R
VuuLL_1111	$(ar{u}_L \gamma^\mu u_L)(ar{u}_L \gamma_\mu u_L)$	$\mathbf{R}$
VuuLL_1122	$(\bar{u}_L \gamma^\mu u_L)(\bar{c}_L \gamma_\mu c_L)$	R
VuuLL_1221	$(ar{u}_L \gamma^\mu c_L)(ar{c}_L \gamma_\mu u_L)$	R
VuuLL_2222	$(ar{c}_L \gamma^\mu c_L) (ar{c}_{ar{L}} \gamma_\mu c_L)$	R
VddLL_1111	$(d_L \gamma^\mu d_L)(d_L \gamma_\mu d_L)$	R
VddLL_1122	$(ar{d}_L \gamma^\mu d_L) (ar{s}_L \gamma_\mu s_L)$	$\mathbf{R}$
VddLL_1133	$(ar{d}_L \gamma^\mu d_L) (ar{b}_L \gamma_\mu b_L)$	${ m R}$
VddLL_1221	$(ar{d}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu d_L)$	${ m R}$
VddLL_1331	$(ar{d}_L \gamma^\mu b_L) (ar{b}_L \gamma_\mu d_L)$	$\mathbf{R}$
VddLL_2222	$(ar{s}_L \gamma^\mu s_L) (ar{s}_L \gamma_\mu s_L)$	${ m R}$
VddLL_2233	$(ar{s}_L \gamma^\mu s_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{R}$
VddLL_2332	$(ar{s}_L \gamma^\mu b_L) (ar{b}_L \gamma_\mu s_L)$	R
VddLL_3333	$(ar{b}_L\gamma^\mu b_L)(ar{b}_L\gamma_\mu b_L)$	R
V1udLL_1111	$(ar{u}_L \gamma^\mu u_L) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{R}$
V1udLL_1122	$(ar{u}_L \gamma^\mu u_L) (ar{s}_L \gamma_\mu s_L)$	$\mathbf{R}$
V1udLL_1133	$(ar{u}_L \gamma^\mu u_L) (ar{b}_L \gamma_\mu b_L)$	$\mathbf{R}$
V1udLL_2211	$(ar{c}_L \gamma^\mu c_L) (ar{d}_L \gamma_\mu d_L)$	$\mathbf{R}$
V1udLL_2222	$(ar{c}_L \gamma^\mu c_L) (ar{s}_L \gamma_\mu s_L)$	$\mathbf{R}$
V1udLL_2233	$(ar{c}_L \gamma^\mu c_L) (ar{b}_L \gamma_\mu b_L)$	R
V8udLL_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_L \gamma_\mu T^A d_L)$	$\mathbf{R}$
V8udLL_1122	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_L \gamma_\mu T^A s_L)$	$\mathbf{R}$
V8udLL_1133	$(ar{u}_L \gamma^\mu T^A u_L) (ar{b}_L \gamma_\mu T^A b_L)$	${ m R}$
V8udLL_2211	$(ar{c}_L \gamma^\mu T^A c_L) (ar{d}_L \gamma_\mu T^A d_L)$	R
V8udLL_2222	$(ar{c}_L \gamma^\mu T^A c_L) (ar{s}_L \gamma_\mu T^A s_L)$	${ m R}$
V8udLL_2233	$(ar{c}_L \gamma^\mu T^A c_L) (ar{b}_L \gamma_\mu T^A b_L)$	${ m R}$
VeeRR_1111	$(ar{e}_R \gamma^\mu e_R) (ar{e}_R \gamma_\mu e_R)$	${ m R}$
VeeRR_1122	$(ar{e}_R \gamma^\mu e_R)(ar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{R}$
VeeRR_1133	$(ar{e}_R \gamma^\mu e_R)(ar{ au}_R \gamma_\mu  au_R)$	R
VeeRR_2222	$(\bar{\mu}_R \gamma^\mu \mu_R)(\bar{\mu}_R \gamma_\mu \mu_R)$	R
VeeRR_2233	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{ au}_R \gamma_\mu  au_R)$	R
VeeRR_3333	$(ar au_R\gamma^\mu au_R)(ar au_R\gamma_\mu au_R)$	R
VeuRR_1111	$(ar{e}_R\gamma^\mu e_R)(ar{u}_R\gamma_\mu u_R)$	R
VeuRR_1122	$(\bar{e}_R \gamma^\mu e_R)(\bar{c}_R \gamma_\mu c_R)$	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	$(ar{ au}_R\gamma^\mu au_R)(ar{c}_R\gamma_\mu c_R)$	R
VedRR_1111	$(ar{e}_R\gamma^\mu e_R)(d_R\gamma_\mu d_R)$	R
VedRR_1122	$(\bar{e}_R \gamma^\mu e_R)(\bar{s}_R \gamma_\mu s_R)$	R
VedRR_1133	$(ar{e}_R \gamma^\mu e_R)(b_R \gamma_\mu b_R)$	R

WC name	Operator	Type
VedRR_2211	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{d}_R \gamma_\mu d_R)$	R
VedRR_2222	$(ar{\mu}_R \gamma^\mu \mu_R) (ar{s}_R \gamma_\mu s_R)$	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	$(ar{u}_R\gamma^\mu u_R)(ar{u}_R\gamma_\mu u_R)$	${ m R}$
VuuRR_1122	$(ar{u}_R \gamma^\mu u_R) (ar{c}_R \gamma_\mu c_R)$	${ m R}$
VuuRR_1221	$(ar{u}_R \gamma^\mu c_R) (ar{c}_R \gamma_\mu u_R)$	R
VuuRR_2222	$(ar{c}_R \gamma^\mu c_R) (ar{c}_R \gamma_\mu c_R)$	R
VddRR_1111	$(ar{d}_R\gamma^\mu d_R)(ar{d}_R\gamma_\mu d_R)$	${ m R}$
VddRR_1122	$(ar{d}_R\gamma^\mu d_R)(ar{s}_R\gamma_\mu s_R)$	${ m R}$
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	$(ar{s}_R\gamma^\mu b_R)(ar{b}_R\gamma_\mu s_R)$	$\mathbf{R}$
VddRR_3333	$(ar{b}_R\gamma^\mu b_R)(ar{b}_R\gamma_\mu b_R)$	$\mathbf{R}$
V1udRR_1111	$(\bar{u}_R\gamma^\mu u_R)(\bar{d}_R\gamma_\mu d_R)$	$\mathbf{R}$
V1udRR_1122	$(\bar{u}_R \gamma^\mu u_R)(\bar{s}_R \gamma_\mu s_R)$	${ m R}$
V1udRR_1133	$(ar{u}_R\gamma^\mu u_R)(ar{b}_R\gamma_\mu b_R)$	$\mathbf{R}$
V1udRR_2211	$(ar{c}_R \gamma^\mu c_R) (ar{d}_R \gamma_\mu d_R)$	$\mathbf{R}$
V1udRR_2222	$(\bar{c}_R\gamma^\mu c_R)(\bar{s}_R\gamma_\mu s_R)$	$\mathbf{R}$
V1udRR_2233	$(ar{c}_R \gamma^\mu c_R) (ar{b}_R \gamma_\mu b_R)$	${ m R}$
V8udRR_1111	$(\bar{u}_R \gamma^\mu T^A u_R) (\bar{d}_R \gamma_\mu T^A d_R)$	$\mathbf{R}$
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	$(\bar{c}_R \gamma^\mu T^A c_R) (\bar{d}_R \gamma_\mu T^A d_R)$	$\mathbf{R}$
V8udRR_2222	$(ar{c}_R\gamma^\mu T^A c_R)(ar{s}_R\gamma_\mu T^A s_R)$	${ m R}$
V8udRR_2233	$(ar{c}_R \gamma^\mu T^A c_R) (ar{b}_R \gamma_\mu T^A b_R)$	${ m R}$
VnueLR_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu}e_{R})$	${ m R}$
VnueLR_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{\mu}_{R}\gamma_{\mu}\mu_{R})$	${ m R}$
VnueLR_1133	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ au}_{R}\gamma_{\mu} au_{R})$	${ m R}$
VnueLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{e}_R \gamma_{\mu} e_R)$	R
VnueLR_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{\mu}_R \gamma_{\mu} \mu_R)$	R
VnueLR_2233	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{ au}_R \gamma_{\mu}  au_R)$	R
VnueLR_3311	$(\bar{ u}_{\tau L} \gamma^{\mu}  u_{\tau L}) (\bar{e}_R \gamma_{\mu} e_R)$	${ m R}$
VnueLR_3322	$(ar u_{ au L} \gamma^\mu  u_{ au L}) (ar\mu_R \gamma_\mu \mu_R)$	R
VnueLR_3333	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{ au}_R \gamma_{\mu}  au_R)$	R
VeeLR_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{e}_R \gamma_\mu e_R)$	${ m R}$
VeeLR_1122	$(\bar{e}_L \gamma^\mu e_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{R}$
VeeLR_1133	$(ar{e}_L \gamma^\mu e_L)(ar{ au}_R \gamma_\mu  au_R)$	R

WC name	Operator	Type
	$(ar{e}_L\gamma^\mu\mu_L)(ar{\mu}_R\gamma_\mu e_R)$	C
VeeLR_1331	$(ar{e}_L\gamma^\mu au_L)(ar{ au}_R\gamma_\mu e_R)$	$^{\mathrm{C}}$
VeeLR_2211	$(ar{\mu}_L\gamma^\mu\mu_L)(ar{e}_R\gamma_\mu e_R)$	R
	$(ar{\mu}_L\gamma^\mu\mu_L)(ar{\mu}_R\gamma_\mu\mu_R)$	R
VeeLR_2233	$(ar{\mu}_L\gamma^\mu\mu_L)(ar{ au}_R\gamma_\mu au_R)$	R
VeeLR_2332	$(ar{\mu}_L \gamma^\mu  au_L)(ar{ au}_R \gamma_\mu \mu_R)$	$\mathbf{C}$
VeeLR_3311	$(ar{ au}_L\gamma^\mu au_L)(ar{e}_R\gamma_\mu e_R)$	R
VeeLR_3322	$(ar au_L\gamma^\mu au_L)(ar\mu_R\gamma_\mu\mu_R)$	R
VeeLR_3333	$(ar{ au}_L \gamma^\mu  au_L) (ar{ au}_R \gamma_\mu  au_R)$	R
VnuuLR_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{u}_{R}\gamma_{\mu}u_{R})$	R
VnuuLR_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{c}_{R}\gamma_{\mu}c_{R})$	R
VnuuLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{u}_R \gamma_{\mu} u_R)$	${ m R}$
VnuuLR_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{c}_R \gamma_{\mu} c_R)$	R
VnuuLR_3311	$(\bar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (\bar{u}_R \gamma_{\mu} u_R)$	R
VnuuLR_3322	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{c}_R \gamma_{\mu} c_R)$	R
VnudLR_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{R}\gamma_{\mu}d_{R})$	${ m R}$
VnudLR_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{s}_{R}\gamma_{\mu}s_{R})$	R
VnudLR_1133	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{b}_{R}\gamma_{\mu}b_{R})$	${ m R}$
VnudLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_R \gamma_{\mu} d_R)$	R
VnudLR_2222	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{s}_R \gamma_{\mu} s_R)$	${ m R}$
VnudLR_2233	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{b}_R \gamma_{\mu} b_R)$	${ m R}$
VnudLR_3311	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} d_R)$	R
VnudLR_3322	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{s}_R \gamma_{\mu} s_R)$	R
VnudLR_3333	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{b}_R \gamma_{\mu} b_R)$	R
VeuLR_1111	$(ar{e}_L \gamma^\mu e_L) (ar{u}_R \gamma_\mu u_R)$	${ m R}$
VeuLR_1122	$(ar{e}_L \gamma^\mu e_L)(ar{c}_R \gamma_\mu c_R)$	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	$(ar{e}_L \gamma^\mu e_L) (ar{\underline{s}}_R \gamma_\mu s_R)$	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	$(ar{\mu}_L \gamma^\mu \mu_L) (ar{s}_R \gamma_\mu s_R)$	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	$(ar{u}_L \gamma^\mu u_L) (ar{e}_R \gamma_\mu e_R)$	R
VueLR_1122	$(ar{u}_L \gamma^\mu u_L)(ar{\mu}_R \gamma_\mu \mu_R)$	R
VueLR_1133	$(\bar{u}_L \gamma^\mu u_L)(\bar{ au}_R \gamma_\mu  au_R)$	${ m R}$
VueLR_2211	$(\bar{c}_L \gamma^\mu c_L)(\bar{e}_R \gamma_\mu e_R)$	${ m R}$

WC name	Operator	Type
VueLR_2222	$(\bar{c}_L \gamma^\mu c_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	R
VueLR_2233	$(ar{c}_L \gamma^\mu c_L) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{R}$
VdeLR_1111	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu e_R)$	$\mathbf{R}$
VdeLR_1122	$(ar{d}_L \gamma^\mu d_L)(ar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{R}$
VdeLR_1133	$(ar{d}_L \gamma^\mu d_L)(ar{ au}_R \gamma_\mu  au_R)$	${ m R}$
VdeLR_2211	$(ar{s}_L \gamma^\mu s_L)(ar{e}_R \gamma_\mu e_R)$	${ m R}$
VdeLR_2222	$(\bar{s}_L \gamma^\mu s_L)(\bar{\mu}_R \gamma_\mu \mu_R)$	$\mathbf{R}$
VdeLR_2233	$(ar{s}_L \gamma^\mu s_L) (ar{ au}_R \gamma_\mu  au_R)$	$\mathbf{R}$
VdeLR_3311	$(ar{b}_L \gamma^\mu b_L) (ar{e}_R \gamma_\mu e_R)$	R
VdeLR_3322	$(ar{b}_L \gamma^\mu b_L) (ar{\mu}_R \gamma_\mu \mu_R)$	${ m R}$
VdeLR_3333	$(ar{b}_L \gamma^\mu b_L) (ar{ au}_R \gamma_\mu  au_R)$	${ m R}$
V1uuLR_1111	$(ar{u}_L \gamma^\mu u_L)(ar{u}_R \gamma_\mu u_R)$	R
V1uuLR_1122	$(ar{u}_L \gamma^\mu u_L) (ar{c}_R \gamma_\mu c_R)$	R
V1uuLR_1221	$(ar{u}_L \gamma^\mu c_L) (ar{c}_R \gamma_\mu u_R)$	$^{\mathrm{C}}$
V1uuLR_2211	$(ar{c}_L \gamma^\mu c_L) (ar{u}_R \gamma_\mu u_R)$	R
V1uuLR_2222	$(ar{c}_L \gamma^\mu c_L) (ar{c}_R \gamma_\mu c_R)$	R
V8uuLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{u}_R \gamma_\mu T^A u_R)$	$\mathbf{R}$
V8uuLR_1122	$(ar{u}_L \gamma^\mu T^A u_L) (ar{c}_R \gamma_\mu T^A c_R)$	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	$(ar{c}_L \gamma^\mu T^A c_L) (ar{c}_R \gamma_\mu T^A c_R)$	R
V1udLR_1111	$(ar{u}_L \gamma^\mu u_L) (ar{d}_R \gamma_\mu d_R)$	R
V1udLR_1122	$(ar{u}_L \gamma^\mu u_L) (ar{s}_R \gamma_\mu s_R)$	R
V1udLR_1133	$(ar{u}_L \gamma^\mu u_L)(ar{b}_R \gamma_\mu b_R)$	R
V1udLR_2211	$(ar{c}_L \gamma^\mu c_L) (ar{d}_R \gamma_\mu d_R)$	R
V1udLR_2222	$(ar{c}_L \gamma^\mu c_L) (ar{s}_R \gamma_\mu s_R)$	R
V1udLR_2233	$(ar{c}_L \gamma^\mu c_L) (ar{b}_R \gamma_\mu b_R)$	$\mathbf{R}$
V8udLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A d_R)$	R
V8udLR_1122	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{s}_R \gamma_\mu T^A s_R)$	$\mathbf{R}$
V8udLR_1133	$(ar{u}_L \gamma^\mu T^A u_L) (ar{b}_R \gamma_\mu T^A b_R)$	R
V8udLR_2211	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{d}_R \gamma_\mu T^A d_R)$	R
V8udLR_2222	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{s}_R \gamma_\mu T^A s_R)$	R
V8udLR_2233	$(\bar{c}_L \gamma^\mu T^A c_L)(\bar{b}_R \gamma_\mu T^A b_R)$	R
V1duLR_1111	$(ar{d}_L\gamma^\mu d_L)(ar{u}_R\gamma_\mu u_R)$	R
V1duLR_1122	$(ar{d}_L\gamma^\mu d_L)(ar{c}_R\gamma_\mu c_R)$	R
V1duLR_2211	$(\bar{s}_L \gamma^\mu s_L)(\bar{u}_R \gamma_\mu u_R)$	R
V1duLR_2222	$(ar{s}_L \gamma^\mu s_L) (ar{c}_R \gamma_\mu c_R)$	R
V1duLR_3311	$(ar{b}_L \gamma^\mu b_L)(ar{u}_R \gamma_\mu u_R)$	R
V1duLR_3322	$(ar{b}_L \gamma^\mu b_L)(ar{c}_R \gamma_\mu c_R)$	${ m R}$
V8duLR_1111	$(ar{d}_L \gamma^\mu T^A d_L) (ar{u}_R \gamma_\mu T^A u_R)$	R
V8duLR_1122	$(ar{d}_L\gamma^\mu T^A d_L)(ar{c}_R\gamma_\mu T^A c_R)$	$\mathbf{R}$
V8duLR_2211	$(\bar{s}_L \gamma^\mu T^A s_L)(\bar{u}_R \gamma_\mu T^A u_R)$	$\mathbf{R}$
V8duLR_2222	$(ar{s}_L\gamma^\mu T^A s_L)(ar{c}_R\gamma_\mu T^A c_R)$	${ m R}$

WC name	Operator	Type
V8duLR_3311	$(\bar{b}_L \gamma^\mu T^A b_L)(\bar{u}_R \gamma_\mu T^A u_R)$	R
V8duLR_3322	$(\bar{b}_L \gamma^\mu T^A b_L)(\bar{c}_R \gamma_\mu T^A c_R)$	$\mathbf{R}$
V1ddLR_1111	$(ar{d}_L \gamma^\mu d_L) (ar{d}_R \gamma_\mu d_R)$	${ m R}$
V1ddLR_1122	$(ar{d}_L \gamma^\mu d_L) (ar{s}_R \gamma_\mu s_R)$	R
V1ddLR_1133	$(ar{d}_L \gamma^\mu d_L) (ar{b}_R \gamma_\mu b_R)$	R
V1ddLR_1221	$(ar{d}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu d_R)$	$\mathbf{C}$
V1ddLR_1331	$(ar{d}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu d_R)$	$\mathbf{C}$
V1ddLR_2211	$(ar{s}_L \gamma^\mu s_L) (ar{d}_R \gamma_\mu d_R)$	R
V1ddLR_2222	$(ar{s}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu s_R)$	R
V1ddLR_2233	$(ar{s}_L \gamma^\mu s_L) (ar{b}_R \gamma_\mu b_R)$	R
V1ddLR_2332	$(ar{s}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu s_R)$	$\mathbf{C}$
V1ddLR_3311	$(ar{b}_L \gamma^\mu b_L) (ar{d}_R \gamma_\mu d_R)$	R
V1ddLR_3322	$(ar{b}_L\gamma^\mu b_L)(ar{s}_R\gamma_\mu s_R)$	R
V1ddLR_3333	$(ar{b}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu b_R)$	R
V8ddLR_1111	$(ar{d}_L \gamma^\mu T^A d_L) (ar{d}_R \gamma_\mu T^A d_R)$	R
V8ddLR_1122	$(\bar{d}_L \gamma^\mu T^A d_L)(\bar{s}_R \gamma_\mu T^A s_R)$	R
V8ddLR_1133	$(\bar{d}_L \gamma^\mu T^A d_L)(\bar{b}_R \gamma_\mu T^A b_R)$	R
V8ddLR_1221	$(ar{d}_L \gamma^\mu T^A s_L) (ar{s}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V8ddLR_1331	$(\bar{d}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A d_R)$	$\mathbf{C}$
V8ddLR_2211	$(\bar{s}_L \gamma^\mu T^A s_L)(\bar{d}_R \gamma_\mu T^A d_R)$	R
V8ddLR_2222	$(\bar{s}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A s_R)$	R
V8ddLR_2233	$(\bar{s}_L \gamma^\mu T^A s_L)(\bar{b}_R \gamma_\mu T^A b_R)$	R
V8ddLR_2332	$(\bar{s}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A s_R)$	$\mathbf{C}$
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	$(ar{u}_L \gamma^\mu d_L) (ar{d}_R \gamma_\mu u_R)$	$\mathbf{C}$
V1udduLR_1221	$(ar{u}_L \gamma^\mu s_L)(ar{s}_R \gamma_\mu u_R)$	$\mathbf{C}$
V1udduLR_1331	$(ar{u}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu u_R)$	$\mathbf{C}$
V1udduLR_2112	$(ar{c}_L \gamma^\mu d_L) (ar{d}_R \gamma_\mu c_R)$	$\mathbf{C}$
V1udduLR_2222	$(ar{c}_L \gamma^\mu s_L) (ar{s}_R \gamma_\mu c_R)$	С
V1udduLR_2332	$(ar{c}_L \gamma^\mu b_L) (ar{b}_R \gamma_\mu c_R)$	С
V8udduLR_1111	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A u_R)$	С
V8udduLR_1221	$(\bar{u}_L \gamma^\mu T^A s_L)(\bar{s}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V8udduLR_1331	$(\bar{u}_L \gamma^\mu T^A b_L) (\bar{b}_R \gamma_\mu T^A u_R)$	$\mathbf{C}$
V8udduLR_2112	$(\bar{c}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A c_R)$	$\mathbf{C}$
V8udduLR_2222	$(ar{c}_L \gamma^\mu T^A s_L) (ar{s}_R \gamma_\mu T^A c_R)$	С
V8udduLR_2332	$(\bar{c}_L \gamma^\mu T^A b_L)(\bar{b}_R \gamma_\mu T^A c_R)$	С
SeuRL_1111	$(\bar{e}_L e_R)(\bar{u}_R u_L)$	$^{\mathrm{C}}$
SeuRL_1122	$(ar{e}_L e_R)(ar{c}_R c_L)$	$^{\mathrm{C}}$
SeuRL_2211	$(\bar{\mu}_L \mu_R)(\bar{u}_R u_L)$	C
SeuRL_2222	$(ar{\mu}_L\mu_R)(ar{c}_Rc_L)$	$^{\mathrm{C}}$

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$\begin{array}{llllllllllllllllllllllllllllllllllll$	WC name	Operator	Type
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SeuRL_3311	$(ar{ au}_L au_R)(ar{u}_Ru_L)$	C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SeuRL_3322	$(ar{ au}_L au_R)(ar{c}_Rc_L)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_1111	$(ar{e}_L e_R)(ar{d}_R d_L)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_1122	$(ar{e}_L e_R)(ar{s}_R s_L)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_1133	_	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_2211	$(ar{\mu}_L \mu_R)(ar{d}_R d_L)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_2222		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_2233	$(ar{\mu}_L \mu_R) (ar{b}_R b_L)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_3311		$\mathbf{C}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	SedRL_3322		$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SedRL_3333		$\mathbf{C}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	SeeRR_1111	$(ar{e}_L e_R)(ar{e}_L e_R)$	$\mathbf{C}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	SeeRR_1122	$(ar{e}_L e_R)(ar{\mu}_L \mu_R)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SeeRR_1133		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SeeRR_1221		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	SeeRR_1331	$(ar{e}_L au_R)(ar{ au}_Le_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(ar{\mu}_L\mu_R)(ar{\mu}_L\mu_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SeeRR_2233	$(ar{\mu}_L \mu_R)(ar{ au}_L  au_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SeeRR_2332	$(ar{\mu}_L au_R)(ar{ au}_L\mu_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SeeRR_3333	$(ar{ au}_L au_R)(ar{ au}_L au_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SeuRR_1111	$(ar{e}_L e_R)(ar{u}_L u_R)$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	$(ar{\mu}_L \mu_R)(ar{u}_L u_R)$	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	$(\bar{ au}_L \sigma^{\mu u}  au_R)(\bar{u}_L \sigma_{\mu u} u_R)$	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
SedRR_3322 $(\bar{\tau}_L \tau_R)(\bar{s}_L s_R)$ C SedRR_3333 $(\bar{\tau}_L \tau_R)(\bar{b}_L b_R)$ C TedRR_1111 $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$ C	SedRR_2233	$(ar{\mu}_L\mu_R)(ar{b}_Lb_R)$	
SedRR_3333 $(\bar{\tau}_L \tau_R)(\bar{b}_L b_R)$ C TedRR_1111 $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$ C	_		
TedRR_1111 $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$ C	_		
TedRR_1111 $(\bar{e}_L \sigma^{\mu\nu} e_R)(d_L \sigma_{\mu\nu} d_R)$ C TedRR_1122 $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$ C			
TedRR_1122 $(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{s}_L \sigma_{\mu\nu} s_R)$ C	_	$(ar{e}_L\sigma^{\mu u}e_R)(d_L\sigma_{\mu u}d_R)$	
	TedRR_1122	$(\bar{e}_L \sigma^{\mu  u} e_R) (\bar{s}_L \sigma_{\mu  u} s_R)$	С

WC name	Operator	Type
TedRR_1133	$(ar{e}_L\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}b_R)$	С
TedRR_2211	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{d}_L \sigma_{\mu  u} d_R)$	$^{\mathrm{C}}$
TedRR_2222	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{s}_L \sigma_{\mu  u} s_R)$	$^{\mathrm{C}}$
TedRR_2233	$(ar{\mu}_L \sigma^{\mu  u} \mu_R) (ar{b}_L \sigma_{\mu  u} b_R)$	$^{\mathrm{C}}$
TedRR_3311	$(ar{ au}_L \sigma^{\mu u}  au_R) (ar{d}_L \sigma_{\mu u} d_R)$	$^{\mathrm{C}}$
TedRR_3322	$(ar{ au}_L\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}s_R)$	$^{\mathrm{C}}$
TedRR_3333	$(ar{ au}_L \sigma^{\mu u}  au_R) (ar{b}_L \sigma_{\mu u} b_R)$	$^{\mathrm{C}}$
S1uuRR_1111	$(ar{u}_L u_R)(ar{u}_L u_R)$	$^{\mathrm{C}}$
S1uuRR_1122	$(ar{u}_L u_R)(ar{c}_L c_R)$	$^{\mathrm{C}}$
S1uuRR_1221	$(ar{u}_L c_R)(ar{c}_L u_R)$	$^{\mathrm{C}}$
S1uuRR_2222	$(ar{c}_L c_R)(ar{c}_L c_R)$	C
S8uuRR_1111	$(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$	C
S8uuRR_1122	$(\bar{u}_L T^A u_R)(\bar{c}_L T^A c_R)$	С
S8uuRR_1221	$(\bar{u}_L T^A c_R)(\bar{c}_L T^A u_R)$	С
S8uuRR_2222	$(ar{c}_L T^A c_R)(ar{c}_L T^A c_R)$	С
S1udRR_1111	$(ar{u}_L u_R)(d_L d_R)$	С
S1udRR_1122	$(ar{u}_L u_R)(ar{\underline{s}}_L s_R)$	С
S1udRR_1133	$(ar{u}_L u_R)(ar{b}_L b_R)$	С
S1udRR_2211	$(ar{c}_L c_R) (ar{d}_L d_R)$	C
S1udRR_2222	$(ar{c}_L c_R) (ar{s}_L s_R)$	С
S1udRR_2233	$(ar{c}_L c_R)(b_L b_R)$	С
S8udRR_1111	$(ar{u}_L T^A u_R) (ar{d}_L T^A d_R)$	$^{\mathrm{C}}$
S8udRR_1122	$(\bar{u}_L T^A u_R)(\bar{s}_L T^A s_R)$	$\mathbf{C}$
S8udRR_1133	$(ar{u}_L T^A u_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S8udRR_2211	$(ar{c}_L T^A c_R) (ar{d}_L T^A d_R)$	$^{\mathrm{C}}$
S8udRR_2222	$(ar{c}_L T^A c_R) (ar{s}_L T^A s_R)$	$\mathbf{C}$
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	$(ar{d}_L d_R)(ar{b}_L b_R)$	$^{\mathrm{C}}$
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	$(ar{d}_L T^A d_R) (ar{s}_L T^A s_R)$	$\mathbf{C}$
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	$(ar{s}_L T^A s_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
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WC name	Operator	Type
S8ddRR_2332	$(\bar{s}_L T^A b_R)(\bar{b}_L T^A s_R)$	C
S8ddRR_3333	$(ar{b}_L T^A b_R) (ar{b}_L T^A b_R)$	$\mathbf{C}$
S1udduRR_1111	$(ar{u}_L d_R)(ar{d}_L u_R)$	$\mathbf{C}$
S1udduRR_1221	$(ar{u}_L s_R)(ar{s}_L u_R)$	$^{\mathrm{C}}$
S1udduRR_1331	$(ar{u}_L b_R)(ar{b}_L u_R)$	$^{\mathrm{C}}$
S1udduRR_2112	$(ar{c}_L d_R)(ar{d}_L c_R)$	$^{\mathrm{C}}$
S1udduRR_2222	$(ar{c}_L s_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
S1udduRR_2332	$(ar{c}_L b_R)(ar{b}_L c_R)$	$^{\mathrm{C}}$
S8udduRR_1111	$(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	$^{\mathrm{C}}$
S8udduRR_1221	$(\bar{u}_L T^A s_R)(\bar{s}_L T^A u_R)$	$\mathbf{C}$
S8udduRR_1331	$(\bar{u}_L T^A b_R)(\bar{b}_L T^A u_R)$	$^{\mathrm{C}}$
S8udduRR_2112	$(ar{c}_L T^A d_R) (ar{d}_L T^A c_R)$	$^{\mathrm{C}}$
S8udduRR_2222	$(\bar{c}_L T^A s_R)(\bar{s}_L T^A c_R)$	$\mathbf{C}$
S8udduRR_2332	$(ar{c}_L T^A b_R) (ar{b}_L T^A c_R)$	C
VnueLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu}e_{L})$	$\mathbf{C}$
VnueLL_1222	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{\mu}_{L}\gamma_{\mu}\mu_{L})$	$\mathbf{C}$
VnueLL_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	$^{\mathrm{C}}$
VnuuLL_1211	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\mu L})(\bar{u}_{L}\gamma_{\mu}u_{L})$	$^{\mathrm{C}}$
VnuuLL_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{c}_{\underline{L}}\gamma_{\mu}c_{L})$	$^{\mathrm{C}}$
VnudLL_1211	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(d_L\gamma_{\mu}d_L)$	$^{\mathrm{C}}$
VnudLL_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{L}\gamma_{\mu}s_{L})$	$^{\mathrm{C}}$
VnudLL_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(b_L\gamma_{\mu}b_L)$	$\mathbf{C}$
VnueLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu}e_{R})$	$^{\mathrm{C}}$
VnueLR_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{\mu}_{R}\gamma_{\mu}\mu_{R})$	$^{\mathrm{C}}$
VnueLR_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ au}_{R}\gamma_{\mu} au_{R})$	C
VnuuLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{u}_{R}\gamma_{\mu}u_{R})$	C
VnuuLR_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{c}_{R}\gamma_{\mu}c_{R})$	C
VnudLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(d_R\gamma_{\mu}d_R)$	C
VnudLR_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{R}\gamma_{\mu}s_{R})$	C
VnudLR_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(b_R\gamma_{\mu}b_R)$	C
VnueLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu}e_{L})$	$\stackrel{ ext{C}}{\sim}$
VnueLL_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{\mu}_{L}\gamma_{\mu}\mu_{L})$	C
VnueLL_1333	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ au}_{L}\gamma_{\mu} au_{L})$	С
VnuuLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{u}_{L}\gamma_{\mu}u_{L})$	С
VnuuLL_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{c}_{L}\gamma_{\mu}c_{L})$	С
VnudLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(d_{L}\gamma_{\mu}d_{L})$	C
VnudLL_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{L}\gamma_{\mu}s_{L})$	С
VnudLL_1333	$(\bar{\nu}_{eL}\gamma^{\mu} u_{\tau L})(\bar{b}_{L}\gamma_{\mu}b_{L})$	C
VnueLR_1311	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{e}_{R}\gamma_{\mu}e_{R})$	С
VnueLR_1322	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{\mu}_{R}\gamma_{\mu}\mu_{R})$	С
VnueLR_1333	$(\bar{\nu}_{eL}\gamma^{\mu} u_{\tau L})(\bar{\tau}_{R}\gamma_{\mu}\tau_{R})$	C
VnuuLR_1311	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{u}_{R}\gamma_{\mu}u_{R})$	C C
VnuuLR_1322	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{\tau L})(\bar{c}_R\gamma_{\mu}c_R)$	C

WC name	Operator	Type
VnudLR_1311	$(\bar{\nu}_{eL}\gamma^{\mu} u_{\tau L})(\bar{d}_R\gamma_{\mu}d_R)$	C
VnudLR_1322	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{R}\gamma_{\mu}s_{R})$	C
VnudLR_1333	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{R}\gamma_{\mu}b_{R})$	$\mathbf{C}$
VnueLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_L \gamma_{\mu} e_L)$	C
VnueLL_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_L \gamma_{\mu} \mu_L)$	C
VnueLL_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_{L} \gamma_{\mu}  au_{L})$	$^{\mathrm{C}}$
VnuuLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{u}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnuuLL_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{c}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnudLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} d_L)$	C
VnudLL_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} s_L)$	$^{\mathrm{C}}$
VnudLL_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_L \gamma_{\mu} b_L)$	$^{\mathrm{C}}$
VnueLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{e}_R \gamma_{\mu} e_R)$	C
VnueLR_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{\mu}_R \gamma_{\mu} \mu_R)$	$^{\mathrm{C}}$
VnueLR_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{ au}_R \gamma_{\mu}  au_R)$	$^{\mathrm{C}}$
VnuuLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{u}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
VnuuLR_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{c}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
VnudLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} d_R)$	$^{\mathrm{C}}$
VnudLR_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_R \gamma_{\mu} s_R)$	$^{\mathrm{C}}$
VnudLR_2333	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_R \gamma_{\mu} b_R)$	$\mathbf{C}$

## ${\tt ubenu}$

WC name	Operator	Type
VnueduLL_1131	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{b}_L\gamma_{\mu}u_L)$	$\overline{C}$
VnueduLR_1131	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{b}_R\gamma_{\mu}u_R)$	$\mathbf{C}$
SnueduRL_1131	$(ar{ u}_{eL}e_R)(ar{b}_Ru_L)$	$\mathbf{C}$
SnueduRR_1131	$(ar{ u}_{eL}e_R)(ar{b}_Lu_R)$	$\mathbf{C}$
TnueduRR_1131	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{b}_L\sigma_{\mu u}u_R)$	$\mathbf{C}$
VnueduLL_2131	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{b}_L \gamma_{\mu} u_L)$	$\mathbf{C}$
VnueduLR_2131	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{b}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_2131	$(ar{ u}_{\mu L}e_R)(ar{b}_Ru_L)$	$\mathbf{C}$
SnueduRR_2131	$(ar{ u}_{\mu L}e_R)(ar{b}_Lu_R)$	$\mathbf{C}$
TnueduRR_2131	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{b}_L\sigma_{\mu  u}u_R)$	$\mathbf{C}$
VnueduLL_3131	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{b}_L \gamma_{\mu} u_L)$	$\mathbf{C}$
VnueduLR_3131	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{b}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_3131	$(ar{ u}_{ au L} e_R)(ar{b}_R u_L)$	$\mathbf{C}$
SnueduRR_3131	$(ar{ u}_{ au L} e_R)(ar{b}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_3131	$(\bar{ u}_{ au L} \sigma^{\mu  u} e_R) (\bar{b}_L \sigma_{\mu  u} u_R)$	C

## ${\tt ubmunu}$

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

## ubtaunu

WC name	Operator	Type
VnueduLL_1331	$(\bar{\nu}_{eL}\gamma^{\mu}\tau_L)(\bar{b}_L\gamma_{\mu}u_L)$	C
VnueduLR_1331	$(ar{ u}_{eL}\gamma^{\mu} au_{L})(ar{b}_{R}\gamma_{\mu}u_{R})$	$\mathbf{C}$
SnueduRL_1331	$(ar{ u}_{eL} au_R)(ar{b}_Ru_L)$	$\mathbf{C}$
SnueduRR_1331	$(ar{ u}_{eL} au_R)(ar{b}_Lu_R)$	$\mathbf{C}$
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	$(ar{ u}_{\mu L} au_R)(ar{b}_Ru_L)$	$\mathbf{C}$
SnueduRR_2331	$(ar{ u}_{\mu L} au_R)(ar{b}_L u_R)$	$\mathbf{C}$
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	$(\bar{ u}_{ au L} \gamma^{\mu}  au_L) (\bar{b}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_3331	$(ar u_{ au L} au_R)(ar b_R u_L)$	$\mathbf{C}$
SnueduRR_3331	$(ar u_{ au L} au_R)(ar b_L u_R)$	$\mathbf{C}$
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	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{b}_L\gamma_{\mu}c_L)$	C

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

### ${\tt cbmunu}$

WC name	Operator	Type
VnueduLL_1232	$(\bar{ u}_{eL}\gamma^{\mu}\mu_{L})(\bar{b}_{L}\gamma_{\mu}c_{L})$	C
VnueduLR_1232	$(ar{ u}_{eL}\gamma^{\mu}\mu_{L})(ar{b}_{R}\gamma_{\mu}c_{R})$	$^{\mathrm{C}}$
SnueduRL_1232	$(ar{ u}_{eL}\mu_R)(ar{b}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1232	$(ar{ u}_{eL}\mu_R)(ar{b}_Lc_R)$	$^{\mathrm{C}}$
TnueduRR_1232	$(ar{ u}_{eL}\sigma^{\mu u}\mu_R)(ar{b}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
VnueduLL_2232	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{b}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
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	$(ar{ u}_{\mu L}\mu_R)(ar{b}_L c_R)$	$^{\mathrm{C}}$
TnueduRR_2232	$(ar{ u}_{\mu L}\sigma^{\mu  u}\mu_R)(ar{b}_L\sigma_{\mu  u}c_R)$	$^{\mathrm{C}}$
VnueduLL_3232	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{b}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_3232	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{b}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
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	$(ar u_{ au L}\sigma^{\mu u}\mu_R)(ar b_L\sigma_{\mu u}c_R)$	$\mathbf{C}$

## cbtaunu

WC name	Operator	Type
VnueduLL_1332	$(ar{ u}_{eL}\gamma^{\mu} au_L)(ar{b}_L\gamma_{\mu}c_L)$	С
VnueduLR_1332	$(ar u_{eL}\gamma^\mu au_L)(ar b_R\gamma_\mu c_R)$	$\mathbf{C}$

WC name	Operator	Type
SnueduRL_1332	$(ar{ u}_{eL} au_R)(ar{b}_Rc_L)$	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	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{b}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_2332	$(\bar{ u}_{\mu L} \gamma^{\mu}  au_L) (\bar{b}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2332	$(ar{ u}_{\mu L} au_R)(ar{b}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_2332	$(ar{ u}_{\mu L} au_R)(ar{b}_L c_R)$	$^{\mathrm{C}}$
TnueduRR_2332	$(ar{ u}_{\mu L}\sigma^{\mu u} au_R)(ar{b}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
VnueduLL_3332	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{b}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_3332	$(\bar{ u}_{ au L} \gamma^{\mu}  au_L) (\bar{b}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
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	$(ar{ u}_{ au L} \sigma^{\mu u}  au_R) (ar{b}_L \sigma_{\mu u} c_R)$	С

#### usenu

WC name	Operator	Type
VnueduLL_1121	$(\bar{\nu}_{eL}\gamma^{\mu}e_L)(\bar{s}_L\gamma_{\mu}u_L)$	C
VnueduLR_1121	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{s}_R\gamma_{\mu}u_R)$	$\mathbf{C}$
SnueduRL_1121	$(\bar{ u}_{eL}e_R)(\bar{s}_Ru_L)$	$\mathbf{C}$
SnueduRR_1121	$(\bar{ u}_{eL}e_R)(\bar{s}_Lu_R)$	$\mathbf{C}$
TnueduRR_1121	$(\bar{\nu}_{eL}\sigma^{\mu\nu}e_R)(\bar{s}_L\sigma_{\mu\nu}u_R)$	$\mathbf{C}$
VnueduLL_2121	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{s}_L \gamma_{\mu} u_L)$	$\mathbf{C}$
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	$(ar{ u}_{\mu L}e_R)(ar{s}_Lu_R)$	$\mathbf{C}$
TnueduRR_2121	$(\bar{\nu}_{\mu L}\sigma^{\mu \nu}e_R)(\bar{s}_L\sigma_{\mu \nu}u_R)$	$\mathbf{C}$
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	$(\bar{ u}_{ au L} e_R)(\bar{s}_L u_R)$	$\mathbf{C}$
TnueduRR_3121	$(\bar{ u}_{ au L}\sigma^{\mu u}e_R)(\bar{s}_L\sigma_{\mu u}u_R)$	$\mathbf{C}$

# usmunu

WC name	Operator	Type
VnueduLL_1221	$(\bar{ u}_{eL}\gamma^{\mu}\mu_{L})(\bar{s}_{L}\gamma_{\mu}u_{L})$	С
VnueduLR_1221	$(\bar{ u}_{eL}\gamma^{\mu}\mu_L)(\bar{s}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
SnueduRL_1221	$(ar{ u}_{eL}\mu_R)(ar{s}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_1221	$(\bar{ u}_{eL}\mu_R)(\bar{s}_Lu_R)$	C

WC name	Operator	Type
TnueduRR_1221	$(\bar{\nu}_{eL}\sigma^{\mu\nu}\mu_R)(\bar{s}_L\sigma_{\mu\nu}u_R)$	C
VnueduLL_2221	$(\bar{ u}_{\mu L} \gamma^{\mu} \mu_L) (\bar{s}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2221	$(\bar{\nu}_{\mu L} \gamma^{\mu} \mu_L) (\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
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	$(\bar{ u}_{\mu L}\sigma^{\mu  u}\mu_R)(\bar{s}_L\sigma_{\mu  u}u_R)$	$\mathbf{C}$
VnueduLL_3221	$(\bar{\nu}_{\tau L}\gamma^{\mu}\mu_L)(\bar{s}_L\gamma_{\mu}u_L)$	$^{\mathrm{C}}$
VnueduLR_3221	$(\bar{\nu}_{\tau L} \gamma^{\mu} \mu_L)(\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_3221	$(ar{ u}_{ au L}\mu_R)(ar{s}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_3221	$(\bar{ u}_{ au L}\mu_R)(\bar{s}_L u_R)$	$\mathbf{C}$
TnueduRR_3221	$(ar{ u}_{ au L} \sigma^{\mu u} \mu_R) (ar{s}_L \sigma_{\mu u} u_R)$	С

#### ustaunu

WC name	Operator	Type
VnueduLL_1321	$(\bar{ u}_{eL}\gamma^{\mu} au_L)(\bar{s}_L\gamma_{\mu}u_L)$	C
VnueduLR_1321	$(ar{ u}_{eL}\gamma^{\mu} au_L)(ar{s}_R\gamma_{\mu}u_R)$	$^{\mathrm{C}}$
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	$(\bar{ u}_{\mu L} \gamma^{\mu}  au_L) (\bar{s}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_2321	$(\bar{ u}_{\mu L} \gamma^{\mu}  au_L) (\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_2321	$(ar{ u}_{\mu L} au_R)(ar{s}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_2321	$(ar{ u}_{\mu L} au_R)(ar{s}_L u_R)$	$^{\mathrm{C}}$
TnueduRR_2321	$(\bar{ u}_{\mu L}\sigma^{\mu  u} au_R)(\bar{s}_L\sigma_{\mu  u}u_R)$	$^{\mathrm{C}}$
VnueduLL_3321	$(\bar{ u}_{\tau L} \gamma^{\mu} \tau_L) (\bar{s}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_3321	$(\bar{ u}_{ au L} \gamma^{\mu}  au_L) (\bar{s}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_3321	$(ar{ u}_{ au L} au_R)(ar{s}_R u_L)$	$^{\mathrm{C}}$
SnueduRR_3321	$(ar{ u}_{ au L} au_R)(ar{s}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_3321	$(ar{ u}_{ au L} \sigma^{\mu u}  au_R) (ar{s}_L \sigma_{\mu u} u_R)$	C

#### csenu

WC name	Operator	Type
VnueduLL_1122	$(\bar{ u}_{eL}\gamma^{\mu}e_L)(\bar{s}_L\gamma_{\mu}c_L)$	С
VnueduLR_1122	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{s}_R\gamma_{\mu}c_R)$	$^{\mathrm{C}}$
SnueduRL_1122	$(ar{ u}_{eL}e_R)(ar{s}_Rc_L)$	$^{\mathrm{C}}$
SnueduRR_1122	$(ar{ u}_{eL}e_R)(ar{s}_Lc_R)$	$^{\mathrm{C}}$
TnueduRR_1122	$(\bar{ u}_{eL}\sigma^{\mu u}e_R)(\bar{s}_L\sigma_{\mu u}c_R)$	$^{\mathrm{C}}$
VnueduLL_2122	$(\bar{ u}_{\mu L} \gamma^{\mu} e_L) (\bar{s}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$

WC name	Operator	Type
VnueduLR_2122	$(\bar{\nu}_{\mu L} \gamma^{\mu} e_L) (\bar{s}_R \gamma_{\mu} c_R)$	C
SnueduRL_2122	$(ar{ u}_{\mu L}e_R)(ar{s}_Rc_L)$	$^{\mathrm{C}}$
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	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{s}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_3122	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{s}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
SnueduRL_3122	$(ar{ u}_{ au L} e_R)(ar{s}_R c_L)$	$\mathbf{C}$
SnueduRR_3122	$(ar{ u}_{ au L} e_R)(ar{s}_L c_R)$	$\mathbf{C}$
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	$(\bar{\nu}_{eL}\gamma^{\mu}\mu_L)(\bar{s}_L\gamma_{\mu}c_L)$	$\overline{C}$
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	$(ar{ u}_{eL}\mu_R)(ar{s}_Lc_R)$	$\mathbf{C}$
TnueduRR_1222	$(\bar{ u}_{eL}\sigma^{\mu u}\mu_R)(\bar{s}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
VnueduLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{s}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_2222	$(\bar{ u}_{\mu L} \gamma^{\mu} \mu_L) (\bar{s}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2222	$(ar{ u}_{\mu L}\mu_R)(ar{s}_R c_L)$	$\mathbf{C}$
SnueduRR_2222	$(ar{ u}_{\mu L}\mu_R)(ar{s}_L c_R)$	$\mathbf{C}$
TnueduRR_2222	$(ar{ u}_{\mu L}\sigma^{\mu  u}\mu_R)(ar{s}_L\sigma_{\mu  u}c_R)$	$\mathbf{C}$
VnueduLL_3222	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{s}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_3222	$(\bar{\nu}_{\tau L} \gamma^{\mu} \mu_L) (\bar{s}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_3222	$(ar{ u}_{ au L} \mu_R) (ar{s}_R c_L)$	$\mathbf{C}$
SnueduRR_3222	$(ar{ u}_{ au L}\mu_R)(ar{s}_L c_R)$	$\mathbf{C}$
TnueduRR_3222	$(ar u_{ au L}\sigma^{\mu u}\mu_R)(ar s_L\sigma_{\mu u}c_R)$	C

### cstaunu

WC name	Operator	Type
VnueduLL_1322	$(\bar{\nu}_{eL}\gamma^{\mu}\tau_L)(\bar{s}_L\gamma_{\mu}c_L)$	$\overline{C}$
VnueduLR_1322	$(ar{ u}_{eL}\gamma^{\mu} au_L)(ar{s}_R\gamma_{\mu}c_R)$	$\mathbf{C}$
SnueduRL_1322	$(ar{ u}_{eL} au_R)(ar{s}_Rc_L)$	$\mathbf{C}$
SnueduRR_1322	$(ar{ u}_{eL} au_R)(ar{s}_Lc_R)$	$\mathbf{C}$
TnueduRR_1322	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{s}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
VnueduLL_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{s}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_2322	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{s}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2322	$(ar{ u}_{\mu L} au_R)(ar{s}_Rc_L)$	$\mathbf{C}$

WC name	Operator	Type
SnueduRR_2322	$(ar{ u}_{\mu L} au_R)(ar{s}_L c_R)$	С
TnueduRR_2322	$(ar{ u}_{\mu L}\sigma^{\mu  u} au_R)(ar{s}_L\sigma_{\mu  u}c_R)$	$^{\mathrm{C}}$
VnueduLL_3322	$(\bar{ u}_{ au L} \gamma^{\mu}  au_L) (\bar{s}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnueduLR_3322	$(\bar{ u}_{ au L} \gamma^{\mu}  au_L) (\bar{s}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$
SnueduRL_3322	$(ar{ u}_{ au L} au_R)(ar{s}_Rc_L)$	$\mathbf{C}$
SnueduRR_3322	$(ar{ u}_{ au L} au_R)(ar{s}_L c_R)$	$^{\mathrm{C}}$
TnueduRR_3322	$(ar{ u}_{ au L} \sigma^{\mu u}  au_R) (ar{s}_L \sigma_{\mu u} c_R)$	C

## udenu

WC name	Operator	Type
VnueduLL_1111	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{d}_L\gamma_{\mu}u_L)$	C
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	$(ar{ u}_{eL}e_R)(ar{d}_Lu_R)$	$\mathbf{C}$
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	$(ar{ u}_{\mu L}e_R)(ar{d}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_2111	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{d}_L\sigma_{\mu  u}u_R)$	$^{\mathrm{C}}$
VnueduLL_3111	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{d}_L \gamma_{\mu} u_L)$	$\mathbf{C}$
VnueduLR_3111	$(\bar{ u}_{ au L} \gamma^{\mu} e_L) (\bar{d}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
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	$(\bar{ u}_{ au L}\sigma^{\mu u}e_R)(\bar{d}_L\sigma_{\mu u}u_R)$	C

### udmunu

WC name	Operator	Type
VnueduLL_1211	$(\bar{ u}_{eL}\gamma^{\mu}\mu_L)(\bar{d}_L\gamma_{\mu}u_L)$	C
VnueduLR_1211	$(ar{ u}_{eL}\gamma^{\mu}\mu_{L})(ar{d}_{R}\gamma_{\mu}u_{R})$	$^{\mathrm{C}}$
SnueduRL_1211	$(ar{ u}_{eL}\mu_R)(ar{d}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_1211	$(ar{ u}_{eL}\mu_R)(ar{d}_Lu_R)$	$^{\mathrm{C}}$
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	$(ar{ u}_{\mu L}\mu_R)(ar{d}_R u_L)$	$\mathbf{C}$
SnueduRR_2211	$(ar{ u}_{\mu L}\mu_R)(ar{d}_L u_R)$	$\mathbf{C}$

WC name	Operator	Type
TnueduRR_2211	$(\bar{\nu}_{\mu L}\sigma^{\mu \nu}\mu_R)(\bar{d}_L\sigma_{\mu \nu}u_R)$	C
VnueduLL_3211	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{d}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnueduLR_3211	$(ar{ u}_{ au L} \gamma^{\mu} \mu_L) (ar{d}_R \gamma_{\mu} u_R)$	C
SnueduRL_3211	$(ar{ u}_{ au L}\mu_R)(ar{d}_R u_L)$	C
SnueduRR_3211	$(ar u_{ au L}\mu_R)(ar d_L u_R)$	$^{\mathrm{C}}$
TnueduRR_3211	$(\bar{ u}_{ au L} \sigma^{\mu u} \mu_R) (\bar{d}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$

## udtaunu

WC name	Operator	Type
VnueduLL_1311	$(ar{ u}_{eL}\gamma^{\mu} au_L)(ar{d}_L\gamma_{\mu}u_L)$	C
VnueduLR_1311	$(ar{ u}_{eL}\gamma^{\mu} au_{L})(ar{d}_{R}\gamma_{\mu}u_{R})$	$\mathbf{C}$
SnueduRL_1311	$(ar{ u}_{eL} au_R)(ar{d}_Ru_L)$	C
SnueduRR_1311	$(ar{ u}_{eL} au_R)(ar{d}_Lu_R)$	C
TnueduRR_1311	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}u_R)$	$\mathbf{C}$
VnueduLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_L \gamma_{\mu} u_L)$	C
VnueduLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} u_R)$	C
SnueduRL_2311	$(ar{ u}_{\mu L} au_R)(ar{d}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_2311	$(ar{ u}_{\mu L} au_R)(ar{d}_L u_R)$	$\mathbf{C}$
TnueduRR_2311	$(ar{ u}_{\mu L}\sigma^{\mu  u} au_R)(ar{d}_L\sigma_{\mu  u}u_R)$	C
VnueduLL_3311	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{d}_L \gamma_{\mu} u_L)$	C
VnueduLR_3311	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} u_R)$	$\mathbf{C}$
SnueduRL_3311	$(ar{ u}_{ au L} au_R)(ar{d}_R u_L)$	$\mathbf{C}$
SnueduRR_3311	$(ar u_{ au L} au_R)(ar d_L u_R)$	$\mathbf{C}$
TnueduRR_3311	$(ar{ u}_{ au L} \sigma^{\mu u}  au_R) (ar{d}_L \sigma_{\mu u} u_R)$	C

## cdenu

WC name	Operator	Type
VnueduLL_1112	$(\bar{ u}_{eL}\gamma^{\mu}e_L)(\bar{d}_L\gamma_{\mu}c_L)$	C
VnueduLR_1112	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{d}_R\gamma_{\mu}c_R)$	$\mathbf{C}$
SnueduRL_1112	$(ar{ u}_{eL}e_R)(ar{d}_Rc_L)$	$\mathbf{C}$
SnueduRR_1112	$(ar{ u}_{eL}e_R)(ar{d}_Lc_R)$	$\mathbf{C}$
TnueduRR_1112	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
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	$(ar{ u}_{\mu L}e_R)(ar{d}_Rc_L)$	$\mathbf{C}$
SnueduRR_2112	$(ar{ u}_{\mu L}e_R)(ar{d}_Lc_R)$	$\mathbf{C}$
TnueduRR_2112	$(ar{ u}_{\mu L}\sigma^{\mu  u}e_R)(ar{d}_L\sigma_{\mu  u}e_R)$	$\mathbf{C}$

WC name	Operator	Type
VnueduLL_3112	$(\bar{ u}_{ au L} \gamma^{\mu} e_L) (\bar{d}_L \gamma_{\mu} c_L)$	$^{\rm C}$
VnueduLR_3112	$(\bar{ u}_{ au L} \gamma^{\mu} e_L) (\bar{d}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_3112	$(ar{ u}_{ au L} e_R)(ar{d}_R c_L)$	$\mathbf{C}$
SnueduRR_3112	$(ar{ u}_{ au L} e_R) (ar{d}_L c_R)$	$\mathbf{C}$
TnueduRR_3112	$(ar{ u}_{ au L} \sigma^{\mu  u} e_R) (ar{d}_L \sigma_{\mu  u} c_R)$	$\mathbf{C}$

#### cdmunu

WC name	Operator	Type
VnueduLL_1212	$(\bar{ u}_{eL}\gamma^{\mu}\mu_{L})(\bar{d}_{L}\gamma_{\mu}c_{L})$	C
VnueduLR_1212	$(ar{ u}_{eL}\gamma^{\mu}\mu_{L})(ar{d}_{R}\gamma_{\mu}c_{R})$	$\mathbf{C}$
SnueduRL_1212	$(ar{ u}_{eL}\mu_R)(ar{d}_Rc_L)$	$\mathbf{C}$
SnueduRR_1212	$(ar{ u}_{eL}\mu_R)(ar{d}_Lc_R)$	$\mathbf{C}$
TnueduRR_1212	$(ar{ u}_{eL}\sigma^{\mu u}\mu_R)(ar{d}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
VnueduLL_2212	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{d}_L \gamma_{\mu} c_L)$	$\mathbf{C}$
VnueduLR_2212	$(ar{ u}_{\mu L} \gamma^{\mu} \mu_L) (ar{d}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_2212	$(ar{ u}_{\mu L}\mu_R)(ar{d}_R c_L)$	$^{\mathrm{C}}$
SnueduRR_2212	$(ar{ u}_{\mu L}\mu_R)(ar{d}_L c_R)$	$^{\mathrm{C}}$
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	$(ar{ u}_{ au L} \mu_R) (ar{d}_R c_L)$	$\mathbf{C}$
SnueduRR_3212	$(ar{ u}_{ au L}\mu_R)(ar{d}_L c_R)$	$\mathbf{C}$
TnueduRR_3212	$(ar{ u}_{ au L} \sigma^{\mu u} \mu_R) (ar{d}_L \sigma_{\mu u} c_R)$	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	$(ar{ u}_{eL}\gamma^{\mu} au_{L})(ar{d}_{R}\gamma_{\mu}c_{R})$	C
SnueduRL_1312	$(ar{ u}_{eL} au_R)(ar{d}_Rc_L)$	C
SnueduRR_1312	$(ar{ u}_{eL} au_R)(ar{d}_Lc_R)$	C
TnueduRR_1312	$(ar{ u}_{eL}\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}c_R)$	C
VnueduLL_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_L \gamma_{\mu} c_L)$	C
VnueduLR_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} c_R)$	C
SnueduRL_2312	$(ar{ u}_{\mu L} au_R)(ar{d}_R c_L)$	C
SnueduRR_2312	$(ar{ u}_{\mu L} au_R)(ar{d}_L c_R)$	C
TnueduRR_2312	$(ar{ u}_{\mu L}\sigma^{\mu u} au_R)(ar{d}_L\sigma_{\mu u}c_R)$	$\mathbf{C}$
VnueduLL_3312	$(ar u_{ au L} \gamma^\mu  au_L) (ar d_L \gamma_\mu c_L)$	C

WC name	Operator	Type
VnueduLR_3312	$(ar{ u}_{ au L} \gamma^{\mu}  au_L) (ar{d}_R \gamma_{\mu} c_R)$	$\mathbf{C}$
SnueduRL_3312	$(ar{ u}_{ au L} au_R)(ar{d}_R c_L)$	$\mathbf{C}$
SnueduRR_3312	$(ar{ u}_{ au L} au_R)(ar{d}_L c_R)$	$\mathbf{C}$
TnueduRR_3312	$(ar{ u}_{ au L} \sigma^{\mu u}  au_R) (ar{d}_L \sigma_{\mu u} c_R)$	$^{\mathrm{C}}$

## ${\tt sbnunu}$

WC name	Operator	Type
VnudLL_1123	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{s}_{L}\gamma_{\mu}b_{L})$	C
VnudLL_2223	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{s}_L \dot{\gamma}_{\mu} b_L)$	$^{\mathrm{C}}$
VnudLL_3323	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} b_L)$	$^{\mathrm{C}}$
VnudLR_1123	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{s}_{R}\gamma_{\mu}b_{R})$	$^{\mathrm{C}}$
VnudLR_2223	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{s}_R \gamma_{\mu} b_R)$	$^{\mathrm{C}}$
VnudLR_3323	$(\bar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (\bar{s}_R \gamma_{\mu} b_R)$	$^{\mathrm{C}}$
VnudLL_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{L}\gamma_{\mu}s_{L})$	$^{\mathrm{C}}$
VnudLR_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{R}\gamma_{\mu}s_{R})$	$^{\mathrm{C}}$
VnudLL_1332	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{L}\gamma_{\mu}s_{L})$	$^{\mathrm{C}}$
VnudLR_1332	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{R}\gamma_{\mu}s_{R})$	$^{\mathrm{C}}$
VnudLL_1223	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_L\gamma_{\mu}b_L)$	$^{\mathrm{C}}$
VnudLR_1223	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{s}_{R}\gamma_{\mu}b_{R})$	$^{\mathrm{C}}$
VnudLL_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_L \gamma_{\mu} s_L)$	$^{\mathrm{C}}$
VnudLR_2332	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_R \gamma_{\mu} s_R)$	$^{\mathrm{C}}$
VnudLL_1323	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{L}\gamma_{\mu}b_{L})$	$^{\mathrm{C}}$
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	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_R \gamma_{\mu} b_R)$	$\mathbf{C}$

### dbnunu

WC name	Operator	Type
VnudLL_1113	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{L}\gamma_{\mu}b_{L})$	C
VnudLL_2213	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_L \gamma_{\mu} b_L)$	$\mathbf{C}$
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	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{b}_{R}\gamma_{\mu}d_{R})$	$\mathbf{C}$
VnudLL_1331	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{L}\gamma_{\mu}d_{L})$	$\mathbf{C}$
VnudLR_1331	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{b}_{R}\gamma_{\mu}d_{R})$	$^{\mathrm{C}}$

WC name	Operator	Type
VnudLL_1213	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{d}_{L}\gamma_{\mu}b_{L})$	$\overline{C}$
VnudLR_1213	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_R\gamma_{\mu}b_R)$	$\mathbf{C}$
VnudLL_2331	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_L \gamma_{\mu} d_L)$	$^{\mathrm{C}}$
VnudLR_2331	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{b}_R \gamma_{\mu} d_R)$	$^{\mathrm{C}}$
VnudLL_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{L}\gamma_{\mu}b_{L})$	$^{\mathrm{C}}$
VnudLR_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{R}\gamma_{\mu}b_{R})$	$^{\mathrm{C}}$
VnudLL_2313	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} b_L)$	$^{\mathrm{C}}$
VnudLR_2313	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} b_R)$	C

### sdnunu

WC name	Operator	Type
VnudLL_1112	$(\bar{\nu}_{eL}\gamma^{\mu}\nu_{eL})(\bar{d}_L\gamma_{\mu}s_L)$	C
VnudLL_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_L \gamma_{\mu} s_L)$	$\mathbf{C}$
VnudLL_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} s_L)$	$\mathbf{C}$
VnudLR_1112	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{R}\gamma_{\mu}s_{R})$	$^{\mathrm{C}}$
VnudLR_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{d}_R \gamma_{\mu} s_R)$	$^{\mathrm{C}}$
VnudLR_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} s_R)$	$\mathbf{C}$
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	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{L}\gamma_{\mu}d_{L})$	$\mathbf{C}$
VnudLR_1321	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{s}_{_{\!R}}\gamma_{\mu}d_{R})$	$\mathbf{C}$
VnudLL_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_{L}\gamma_{\mu}s_{L})$	$\mathbf{C}$
VnudLR_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_R\gamma_{\mu}s_R)$	$\mathbf{C}$
VnudLL_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_L \gamma_{\mu} d_L)$	$\mathbf{C}$
VnudLR_2321	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{s}_R \gamma_{\mu} d_R)$	$\mathbf{C}$
VnudLL_1312	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{L}\gamma_{\mu}s_{L})$	$\mathbf{C}$
VnudLR_1312	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_R\gamma_{\mu}s_R)$	$\mathbf{C}$
VnudLL_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_L \gamma_{\mu} s_L)$	$\mathbf{C}$
VnudLR_2312	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{ au L}) (ar{d}_R \gamma_{\mu} s_R)$	C

#### cununu

WC name	Operator	Type
VnuuLL_1112	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{u}_{L}\gamma_{\mu}c_{L})$	C
VnuuLL_2212	$(ar{ u}_{\mu L} \gamma^{\mu}  u_{\mu L}) (ar{u}_L \gamma_{\mu} c_L)$	$^{\mathrm{C}}$
VnuuLL_3312	$(ar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (ar{u}_{L} \gamma_{\mu} c_{L})$	$^{\mathrm{C}}$
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	$(\bar{ u}_{ au L} \gamma^{\mu}  u_{ au L}) (\bar{u}_R \gamma_{\mu} c_R)$	$^{\mathrm{C}}$

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