

## Basis Bern (EFT WET)

Basis suggested by Aebischer, Fael, Grueb, and Virto (arXiv:1704.06639). Neutrinos are in the flavor basis.

### Sectors

The effective Lagrangian is defined as

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

#### sbsb

WC name	Operator	Type
1sbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_\mu P_L b)(\bar{s}\gamma^\mu P_L b)$	C
5sbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s}_\alpha P_L b_\beta)(\bar{s}_\beta P_R b_\alpha)$	C
2sbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s} P_L b)(\bar{s} P_L b)$	C
1psbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_\mu P_R b)(\bar{s}\gamma^\mu P_R b)$	C
3sbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s}_\alpha P_L b_\beta)(\bar{s}_\beta P_L b_\alpha)$	C
2psbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s} P_R b)(\bar{s} P_R b)$	C
4sbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s} P_L b)(\bar{s} P_R b)$	C
3psbsb	$\frac{4G_F}{\sqrt{2}} (\bar{s}_\alpha P_R b_\beta)(\bar{s}_\beta P_R b_\alpha)$	C

#### dbdb

WC name	Operator	Type
1dbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_L b)(\bar{d}\gamma^\mu P_L b)$	C
5dbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d}_\alpha P_L b_\beta)(\bar{d}_\beta P_R b_\alpha)$	C
2dbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d} P_L b)(\bar{d} P_L b)$	C
1pdbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_R b)(\bar{d}\gamma^\mu P_R b)$	C
3dbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d}_\alpha P_L b_\beta)(\bar{d}_\beta P_L b_\alpha)$	C
2pdbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d} P_R b)(\bar{d} P_R b)$	C
4dbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d} P_L b)(\bar{d} P_R b)$	C
3pdbdb	$\frac{4G_F}{\sqrt{2}} (\bar{d}_\alpha P_R b_\beta)(\bar{d}_\beta P_R b_\alpha)$	C

ubenu

WC name	Operator	Type
1ubee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{e}\gamma_\mu\nu_e)$	C
5ubee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{e}\nu_e)$	C
1pubee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{e}\gamma_\mu\nu_e)$	C
5pubee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{e}\nu_e)$	C
7pubee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_e)$	C
1ubemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\mu)$	C
5ubemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{e}\nu_\mu)$	C
1pubemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\mu)$	C
5pubemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{e}\nu_\mu)$	C
7pubemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_\mu)$	C
1ubetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\tau)$	C
5ubetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{e}\nu_\tau)$	C
1pubetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\tau)$	C
5pubetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{e}\nu_\tau)$	C
7pubetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	C

ubmunu

WC name	Operator	Type
1ubmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_e)$	C
5ubmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{\mu}\nu_e)$	C
1pubmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_e)$	C
5pubmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{\mu}\nu_e)$	C
7pubmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	C
1ubmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5ubmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{\mu}\nu_\mu)$	C
1pubmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5pubmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{\mu}\nu_\mu)$	C
7pubmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_\mu)$	C
1ubmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5ubmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{\mu}\nu_\tau)$	C
1pubmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5pubmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{\mu}\nu_\tau)$	C
7pubmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	C

ubtaunu

WC name	Operator	Type
1ubtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_e)$	C
5ubtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{\tau}\nu_e)$	C
1pubtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_e)$	C
5pubtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{\tau}\nu_e)$	C
7pubtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	C
1ubtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5ubtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{\tau}\nu_\mu)$	C
1pubtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5pubtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{\tau}\nu_\mu)$	C
7pubtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_\mu)$	C
1ubtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5ubtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R b)(\bar{\tau}\nu_\tau)$	C
1pubtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5pubtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L b)(\bar{\tau}\nu_\tau)$	C
7pubtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_\tau)$	C

udenu

WC name	Operator	Type
1udee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	C
5udee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{e}\nu_e)$	C
1pudee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	C
5pudee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{e}\nu_e)$	C
7pudee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_e)$	C
1udemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	C
5udemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{e}\nu_\mu)$	C
1pudemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	C
5pudemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{e}\nu_\mu)$	C
7pudemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_\mu)$	C
1udetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\tau)$	C
5udetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{e}\nu_\tau)$	C
1pudetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\tau)$	C
5pudetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{e}\nu_\tau)$	C
7pudetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	C

udmunu

WC name	Operator	Type
1udmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	C
5udmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{\mu}\nu_e)$	C
1pudmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	C
5pudmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{\mu}\nu_e)$	C
7pudmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} d)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	C
1udmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5udmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{\mu}\nu_\mu)$	C
1pudmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5pudmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{\mu}\nu_\mu)$	C
7pudmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} d)(\bar{\mu}\sigma_{\mu\nu}\nu_\mu)$	C
1udmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5udmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{\mu}\nu_\tau)$	C
1pudmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5pudmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{\mu}\nu_\tau)$	C
7pudmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} d)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	C

udtaunu

WC name	Operator	Type
1udtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	C
5udtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{\tau}\nu_e)$	C
1pudtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	C
5pudtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{\tau}\nu_e)$	C
7pudtaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} d)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	C
1udtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5udtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{\tau}\nu_\mu)$	C
1pudtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5pudtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{\tau}\nu_\mu)$	C
7pudtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} d)(\bar{\tau}\sigma_{\mu\nu}\nu_\mu)$	C
1udtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5udtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R d)(\bar{\tau}\nu_\tau)$	C
1pudtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5pudtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L d)(\bar{\tau}\nu_\tau)$	C
7pudtautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} d)(\bar{\tau}\sigma_{\mu\nu}\nu_\tau)$	C

cdenu

WC name	Operator	Type
1cdee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	C
5cdee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{e}\nu_e)$	C
1pcdee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	C
5pcdee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{e}\nu_e)$	C
7pcdee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{e}\sigma_{\mu\nu}\nu_e)$	C
1cdemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	C
5cdemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{e}\nu_\mu)$	C
1pcdemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	C
5pcdemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{e}\nu_\mu)$	C
7pcdemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{e}\sigma_{\mu\nu}\nu_\mu)$	C
1cdetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\tau)$	C
5cdetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{e}\nu_\tau)$	C
1pcdetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\tau)$	C
5pcdetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{e}\nu_\tau)$	C
7pcdetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	C

cdmunu

WC name	Operator	Type
1cdmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	C
5cdmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{\mu}\nu_e)$	C
1pcdmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	C
5pcdmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{\mu}\nu_e)$	C
7pcdmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	C
1cdmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5cdmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{\mu}\nu_\mu)$	C
1pcdmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5pcdmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{\mu}\nu_\mu)$	C
7pcdmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{\mu}\sigma_{\mu\nu}\nu_\mu)$	C
1cdmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5cdmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{\mu}\nu_\tau)$	C
1pcdmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5pcdmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{\mu}\nu_\tau)$	C
7pcdmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	C

cdtaunu

WC name	Operator	Type
1cdtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	C
5cdtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{\tau}\nu_e)$	C
1pcdtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	C
5pcdtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{\tau}\nu_e)$	C
7pcdtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	C
1cdtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5cdtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{\tau}\nu_\mu)$	C
1pcdtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5pcdtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{\tau}\nu_\mu)$	C
7pcdtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{\tau}\sigma_{\mu\nu}\nu_\mu)$	C
1cdtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5cdtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R d)(\bar{\tau}\nu_\tau)$	C
1pcdtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5pcdtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L d)(\bar{\tau}\nu_\tau)$	C
7pcdtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} d)(\bar{\tau}\sigma_{\mu\nu}\nu_\tau)$	C

cbenu

WC name	Operator	Type
1cbee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{e}\gamma_\mu\nu_e)$	C
5cbee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{e}\nu_e)$	C
1pcbee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{e}\gamma_\mu\nu_e)$	C
5pcbee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{e}\nu_e)$	C
7pcbee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} b)(\bar{e}\sigma_{\mu\nu}\nu_e)$	C
1cbemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\mu)$	C
5cbemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{e}\nu_\mu)$	C
1pcbemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\mu)$	C
5pcbemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{e}\nu_\mu)$	C
7pcbemu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} b)(\bar{e}\sigma_{\mu\nu}\nu_\mu)$	C
1cbetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\tau)$	C
5cbetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{e}\nu_\tau)$	C
1pcbetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{e}\gamma_\mu\nu_\tau)$	C
5pcbetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{e}\nu_\tau)$	C
7pcbetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu} b)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	C

cbmunu

WC name	Operator	Type
1cbmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_e)$	C
5cbmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{\mu}\nu_e)$	C
1pcbmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_e)$	C
5pcbmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{\mu}\nu_e)$	C
7pcbmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	C
1cbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5cbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{\mu}\nu_\mu)$	C
1pcbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5pcbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{\mu}\nu_\mu)$	C
7pcbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_\mu)$	C
1cbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5cbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{\mu}\nu_\tau)$	C
1pcbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5pcbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{\mu}\nu_\tau)$	C
7pcbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	C

cbtaunu

WC name	Operator	Type
1cbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_e)$	C
5cbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{\tau}\nu_e)$	C
1pcbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_e)$	C
5pcbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{\tau}\nu_e)$	C
7pcbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	C
1cbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5cbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{\tau}\nu_\mu)$	C
1pcbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5pcbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{\tau}\nu_\mu)$	C
7pcbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_\mu)$	C
1cbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5cbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R b)(\bar{\tau}\nu_\tau)$	C
1pcbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5pcbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L b)(\bar{\tau}\nu_\tau)$	C
7pcbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_\tau)$	C

**sbuc**

WC name	Operator	Type
1sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_\mu b)(\bar{u}\gamma^\mu c)$	C
2sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	C
3sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho} b)(\bar{u}\gamma^{\mu\nu\rho} c)$	C
4sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho} T^A b)(\bar{u}\gamma^{\mu\nu\rho} T^A c)$	C
5sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R b)(\bar{u}c)$	C
6sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R T^A b)(\bar{u}T^A c)$	C
7sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\sigma^{\mu\nu} b)(\bar{u}\sigma_{\mu\nu} c)$	C
8sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\sigma^{\mu\nu} T^A b)(\bar{u}\sigma_{\mu\nu} T^A c)$	C
9sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{u}\gamma^{\mu\nu\rho\sigma} c)$	C
10sbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A c)$	C
1psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_\mu b)(\bar{u}\gamma^\mu c)$	C
2psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	C
3psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho} b)(\bar{u}\gamma^{\mu\nu\rho} c)$	C
4psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho} T^A b)(\bar{u}\gamma^{\mu\nu\rho} T^A c)$	C
5psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L b)(\bar{u}c)$	C
6psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L T^A b)(\bar{u}T^A c)$	C
7psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\sigma^{\mu\nu} b)(\bar{u}\sigma_{\mu\nu} c)$	C
8psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\sigma^{\mu\nu} T^A b)(\bar{u}\sigma_{\mu\nu} T^A c)$	C
9psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho\sigma} b)(\bar{u}\gamma^{\mu\nu\rho\sigma} c)$	C
10psbuc	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A c)$	C

**sbcu**

WC name	Operator	Type
1sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
2sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)$	C
3sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho} b)(\bar{c}\gamma^{\mu\nu\rho} u)$	C
4sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho} T^A b)(\bar{c}\gamma^{\mu\nu\rho} T^A u)$	C
5sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R b)(\bar{c}u)$	C
6sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R T^A b)(\bar{c}T^A u)$	C
7sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\sigma^{\mu\nu} b)(\bar{c}\sigma_{\mu\nu} u)$	C
8sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\sigma^{\mu\nu} T^A b)(\bar{c}\sigma_{\mu\nu} T^A u)$	C
9sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{c}\gamma^{\mu\nu\rho\sigma} u)$	C
10sbcu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A u)$	C



WC name	Operator	Type
1psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
2psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)$	C
3psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho} b)(\bar{c}\gamma^{\mu\nu\rho} u)$	C
4psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho} T^A b)(\bar{c}\gamma^{\mu\nu\rho} T^A u)$	C
5psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L b)(\bar{c}u)$	C
6psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L T^A b)(\bar{c}T^A u)$	C
7psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu} b)(\bar{c}\sigma_{\mu\nu} u)$	C
8psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu} T^A b)(\bar{c}\sigma_{\mu\nu} T^A u)$	C
9psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma} b)(\bar{c}\gamma^{\mu\nu\rho\sigma} u)$	C
10psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A u)$	C

dbuc

WC name	Operator	Type
1dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{u}\gamma^\mu c)$	C
2dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	C
3dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} b)(\bar{u}\gamma^{\mu\nu\rho} c)$	C
4dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} T^A b)(\bar{u}\gamma^{\mu\nu\rho} T^A c)$	C
5dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R b)(\bar{u}c)$	C
6dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R T^A b)(\bar{u}T^A c)$	C
7dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} b)(\bar{u}\sigma_{\mu\nu} c)$	C
8dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} T^A b)(\bar{u}\sigma_{\mu\nu} T^A c)$	C
9dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{u}\gamma^{\mu\nu\rho\sigma} c)$	C
10dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A c)$	C
1pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{u}\gamma^\mu c)$	C
2pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	C
3pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} b)(\bar{u}\gamma^{\mu\nu\rho} c)$	C
4pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} T^A b)(\bar{u}\gamma^{\mu\nu\rho} T^A c)$	C
5pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L b)(\bar{u}c)$	C
6pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L T^A b)(\bar{u}T^A c)$	C
7pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} b)(\bar{u}\sigma_{\mu\nu} c)$	C
8pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} T^A b)(\bar{u}\sigma_{\mu\nu} T^A c)$	C
9pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma} b)(\bar{u}\gamma^{\mu\nu\rho\sigma} c)$	C
10pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A c)$	C

dbcu

WC name	Operator	Type
1dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
2dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)$	C
3dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho} b)(\bar{c}\gamma^{\mu\nu\rho} u)$	C
4dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho} T^A b)(\bar{c}\gamma^{\mu\nu\rho} T^A u)$	C
5dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{c}u)$	C
6dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R T^A b)(\bar{c}T^A u)$	C
7dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu} b)(\bar{c}\sigma_{\mu\nu} u)$	C
8dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu} T^A b)(\bar{c}\sigma_{\mu\nu} T^A u)$	C
9dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{c}\gamma^{\mu\nu\rho\sigma} u)$	C
10dbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A u)$	C
1pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
2pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)$	C
3pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho} b)(\bar{c}\gamma^{\mu\nu\rho} u)$	C
4pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho} T^A b)(\bar{c}\gamma^{\mu\nu\rho} T^A u)$	C
5pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{c}u)$	C
6pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L T^A b)(\bar{c}T^A u)$	C
7pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\sigma^{\mu\nu} b)(\bar{c}\sigma_{\mu\nu} u)$	C
8pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\sigma^{\mu\nu} T^A b)(\bar{c}\sigma_{\mu\nu} T^A u)$	C
9pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma} b)(\bar{c}\gamma^{\mu\nu\rho\sigma} u)$	C
10pdbcu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma} T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A u)$	C

sbsd

WC name	Operator	Type
1sbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_\mu P_L b)(\bar{s}\gamma^\mu d)$	C
1psbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_\mu P_R b)(\bar{s}\gamma^\mu d)$	C
3sbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_{\mu\nu\rho} P_L b)(\bar{s}\gamma^{\mu\nu\rho} d)$	C
3psbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_{\mu\nu\rho} P_R b)(\bar{s}\gamma^{\mu\nu\rho} d)$	C
5sbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L b)(\bar{s}d)$	C
5psbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R b)(\bar{s}d)$	C
7sbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\sigma^{\mu\nu} P_L b)(\bar{s}\sigma_{\mu\nu} d)$	C
7psbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\sigma^{\mu\nu} P_R b)(\bar{s}\sigma_{\mu\nu} d)$	C
9sbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_{\mu\nu\rho\sigma} P_L b)(\bar{s}\gamma^{\mu\nu\rho\sigma} d)$	C
9psbsd	$\frac{4G_F}{\sqrt{2}} (\bar{s}\gamma_{\mu\nu\rho\sigma} P_R b)(\bar{s}\gamma^{\mu\nu\rho\sigma} d)$	C

dbds

WC name	Operator	Type
1dbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_\mu P_L b)(\bar{d}\gamma^\mu s)$	C
1pdbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_\mu P_R b)(\bar{d}\gamma^\mu s)$	C
3dbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho} P_L b)(\bar{d}\gamma^{\mu\nu\rho} s)$	C
3pdbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho} P_R b)(\bar{d}\gamma^{\mu\nu\rho} s)$	C
5dbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L b)(\bar{d}s)$	C
5pdbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R b)(\bar{d}s)$	C
7dbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\sigma^{\mu\nu} P_L b)(\bar{d}\sigma_{\mu\nu} s)$	C
7pdbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\sigma^{\mu\nu} P_R b)(\bar{d}\sigma_{\mu\nu} s)$	C
9dbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma} P_L b)(\bar{d}\gamma^{\mu\nu\rho\sigma} s)$	C
9pdbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma} P_R b)(\bar{d}\gamma^{\mu\nu\rho\sigma} s)$	C

sb

WC name	Operator	Type
7gammasb	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{s}P_R\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8gsb	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{s}P_R\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	C
7pgammasb	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{s}P_L\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8pgsb	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{s}P_L\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	C
1sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{u}\gamma^\mu u)$	C
2sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^Ab)(\bar{u}\gamma^\mu T^A u)$	C
3sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho} b)(\bar{u}\gamma^{\mu\nu\rho} u)$	C
4sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho} T^Ab)(\bar{u}\gamma^{\mu\nu\rho} T^A u)$	C
5sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R b)(\bar{u}u)$	C
6sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R T^Ab)(\bar{u}T^A u)$	C
7sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu} b)(\bar{u}\sigma_{\mu\nu} u)$	C
8sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu} T^Ab)(\bar{u}\sigma_{\mu\nu} T^A u)$	C
9sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{u}\gamma^{\mu\nu\rho\sigma} u)$	C
10sbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma} T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A u)$	C
1psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{u}\gamma^\mu u)$	C
2psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^Ab)(\bar{u}\gamma^\mu T^A u)$	C
3psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho} b)(\bar{u}\gamma^{\mu\nu\rho} u)$	C
4psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho} T^Ab)(\bar{u}\gamma^{\mu\nu\rho} T^A u)$	C
5psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L b)(\bar{u}u)$	C
6psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L T^Ab)(\bar{u}T^A u)$	C

WC name	Operator	Type
7psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}u)$	C
8psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Au)$	C
9psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	C
10psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	C
1sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{d}\gamma^\mu d)$	C
2sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^Ab)(\bar{d}\gamma^\mu T^Ad)$	C
3sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu\rho}d)$	C
4sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{d}\gamma^{\mu\nu\rho}T^Ad)$	C
5sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{d}d)$	C
6sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_RT^Ab)(\bar{d}T^Ad)$	C
7sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{d}\sigma_{\mu\nu}d)$	C
8sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{d}\sigma_{\mu\nu}T^Ad)$	C
9sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	C
10sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)$	C
1psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{d}\gamma^\mu d)$	C
2psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^Ab)(\bar{d}\gamma^\mu T^Ad)$	C
3psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu\rho}d)$	C
4psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{d}\gamma^{\mu\nu\rho}T^Ad)$	C
5psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{d}d)$	C
6psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{d}T^Ad)$	C
7psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{d}\sigma_{\mu\nu}d)$	C
8psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{d}\sigma_{\mu\nu}T^Ad)$	C
9psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	C
10psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)$	C
1sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{c}\gamma^\mu c)$	C
2sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^Ab)(\bar{c}\gamma^\mu T^Ac)$	C
3sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c)$	C
4sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)$	C
5sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{c}c)$	C
6sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_RT^Ab)(\bar{c}T^Ac)$	C
7sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$	C
8sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac)$	C
9sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	C
10sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)$	C
1psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{c}\gamma^\mu c)$	C
2psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^Ab)(\bar{c}\gamma^\mu T^Ac)$	C
3psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c)$	C

WC name	Operator	Type
4psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)$	C
5psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{c}c)$	C
6psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{c}T^Ac)$	C
7psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$	C
8psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac)$	C
9psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	C
10psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)$	C
1sbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{b}\gamma^\mu b)$	C
3sbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b)$	C
5sbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{b}b)$	C
7sbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b)$	C
9sbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)$	C
1psbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{b}\gamma^\mu b)$	C
3psbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b)$	C
5psbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{b}b)$	C
7psbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b)$	C
9psbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)$	C
1sbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_\mu P_Lb)(\bar{s}\gamma^\mu s)$	C
1psbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_\mu P_Rb)(\bar{s}\gamma^\mu s)$	C
3sbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_Lb)(\bar{s}\gamma^{\mu\nu\rho}s)$	C
3psbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_Rb)(\bar{s}\gamma^{\mu\nu\rho}s)$	C
5sbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{s}s)$	C
5psbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{s}s)$	C
7sbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\sigma^{\mu\nu}P_Lb)(\bar{s}\sigma_{\mu\nu}s)$	C
7psbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\sigma^{\mu\nu}P_Rb)(\bar{s}\sigma_{\mu\nu}s)$	C
9sbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho\sigma}P_Lb)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	C
9psbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho\sigma}P_Rb)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	C
1sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{e}\gamma^\mu e)$	C
1psbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{e}\gamma^\mu e)$	C
3sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}e)$	C
3psbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}e)$	C
5sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{e}e)$	C
5psbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{e}e)$	C
7sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e)$	C
7psbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e)$	C
9sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	C
9psbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	C

WC name	Operator	Type
1sbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu\mu)$	C
1psbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu\mu)$	C
3sbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	C
3psbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	C
5sbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{\mu}\mu)$	C
5psbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\mu}\mu)$	C
7sbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	C
7psbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	C
9sbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	C
9psbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	C
1sbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu\tau)$	C
1psbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu\tau)$	C
3sbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\tau)$	C
3psbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\tau)$	C
5sbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{\tau}\tau)$	C
5psbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\tau}\tau)$	C
7sbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\tau)$	C
7psbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\tau)$	C
9sbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau)$	C
9psbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau)$	C

db

WC name	Operator	Type
7gammadb	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{d}P_R\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8gdb	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{d}P_R\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	C
7pgammadb	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{d}P_L\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8pgdb	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{d}P_L\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	C
1dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{u}\gamma^\mu u)$	C
2dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^Ab)(\bar{u}\gamma^\mu T^A u)$	C
3dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}u)$	C
4dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^A u)$	C
5dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{u}u)$	C
6dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{u}T^A u)$	C
7dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}u)$	C
8dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^A u)$	C

WC name	Operator	Type
9dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	C
10dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	C
1pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{u}\gamma^\mu u)$	C
2pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^Ab)(\bar{u}\gamma^\mu T^Au)$	C
3pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}u)$	C
4pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	C
5pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L b)(\bar{u}u)$	C
6pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L T^Ab)(\bar{u}T^Au)$	C
7pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}u)$	C
8pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Au)$	C
9pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	C
10pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	C
1dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{s}\gamma^\mu s)$	C
2dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^Ab)(\bar{s}\gamma^\mu T^As)$	C
3dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{s}\gamma^{\mu\nu\rho}s)$	C
4dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{s}\gamma^{\mu\nu\rho}T^As)$	C
5dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R b)(\bar{s}s)$	C
6dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R T^Ab)(\bar{s}T^As)$	C
7dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{s}\sigma_{\mu\nu}s)$	C
8dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{s}\sigma_{\mu\nu}T^As)$	C
9dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	C
10dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{s}\gamma^{\mu\nu\rho\sigma}T^As)$	C
1pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{s}\gamma^\mu s)$	C
2pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^Ab)(\bar{s}\gamma^\mu T^As)$	C
3pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{s}\gamma^{\mu\nu\rho}s)$	C
4pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{s}\gamma^{\mu\nu\rho}T^As)$	C
5pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L b)(\bar{s}s)$	C
6pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L T^Ab)(\bar{s}T^As)$	C
7pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{s}\sigma_{\mu\nu}s)$	C
8pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{s}\sigma_{\mu\nu}T^As)$	C
9pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	C
10pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{s}\gamma^{\mu\nu\rho\sigma}T^As)$	C
1dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{c}\gamma^\mu c)$	C
2dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^Ab)(\bar{c}\gamma^\mu T^Ac)$	C
3dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c)$	C
4dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)$	C
5dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R b)(\bar{c}c)$	C

WC name	Operator	Type
6dbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R T^A b)(\bar{c}T^A c)$	C
7dbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} b)(\bar{c}\sigma_{\mu\nu} c)$	C
8dbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} T^A b)(\bar{c}\sigma_{\mu\nu} T^A c)$	C
9dbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} b)(\bar{c}\gamma^{\mu\nu\rho\sigma} c)$	C
10dbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A c)$	C
1pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu b)(\bar{c}\gamma^\mu c)$	C
2pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A c)$	C
3pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} b)(\bar{c}\gamma^{\mu\nu\rho} c)$	C
4pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} T^A b)(\bar{c}\gamma^{\mu\nu\rho} T^A c)$	C
5pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{c}c)$	C
6pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L T^A b)(\bar{c}T^A c)$	C
7pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} b)(\bar{c}\sigma_{\mu\nu} c)$	C
8pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} T^A b)(\bar{c}\sigma_{\mu\nu} T^A c)$	C
9pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} b)(\bar{c}\gamma^{\mu\nu\rho\sigma} c)$	C
10pdbcc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A c)$	C
1dbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu b)(\bar{b}\gamma^\mu b)$	C
3dbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} b)(\bar{b}\gamma^{\mu\nu\rho} b)$	C
5dbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{b}b)$	C
7dbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} b)(\bar{b}\sigma_{\mu\nu} b)$	C
9dbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} b)(\bar{b}\gamma^{\mu\nu\rho\sigma} b)$	C
1pdbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu b)(\bar{b}\gamma^\mu b)$	C
3pdbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} b)(\bar{b}\gamma^{\mu\nu\rho} b)$	C
5pdbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{b}b)$	C
7pdbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} b)(\bar{b}\sigma_{\mu\nu} b)$	C
9pdbbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} b)(\bar{b}\gamma^{\mu\nu\rho\sigma} b)$	C
1dbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_L b)(\bar{d}\gamma^\mu d)$	C
1pdbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_R b)(\bar{d}\gamma^\mu d)$	C
3dbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho} P_L b)(\bar{d}\gamma^{\mu\nu\rho} d)$	C
3pdbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho} P_R b)(\bar{d}\gamma^{\mu\nu\rho} d)$	C
5dbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{d}d)$	C
5pdbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{d}d)$	C
7dbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\sigma^{\mu\nu} P_L b)(\bar{d}\sigma_{\mu\nu} d)$	C
7pdbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\sigma^{\mu\nu} P_R b)(\bar{d}\sigma_{\mu\nu} d)$	C
9dbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho\sigma} P_L b)(\bar{d}\gamma^{\mu\nu\rho\sigma} d)$	C
9pdbdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho\sigma} P_R b)(\bar{d}\gamma^{\mu\nu\rho\sigma} d)$	C
1dbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu b)(\bar{e}\gamma^\mu e)$	C
1pdbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu b)(\bar{e}\gamma^\mu e)$	C



WC name	Operator	Type
3dbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} b) (\bar{e} \gamma^{\mu\nu\rho} e)$	C
3pdbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} b) (\bar{e} \gamma^{\mu\nu\rho} e)$	C
5dbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b) (\bar{e} e)$	C
5pdbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b) (\bar{e} e)$	C
7dbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} b) (\bar{e} \sigma_{\mu\nu} e)$	C
7pdbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} b) (\bar{e} \sigma_{\mu\nu} e)$	C
9dbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} b) (\bar{e} \gamma^{\mu\nu\rho\sigma} e)$	C
9pdbee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} b) (\bar{e} \gamma^{\mu\nu\rho\sigma} e)$	C
1dbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu b) (\bar{\mu} \gamma^\mu \mu)$	C
1pdbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu b) (\bar{\mu} \gamma^\mu \mu)$	C
3dbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} b) (\bar{\mu} \gamma^{\mu\nu\rho} \mu)$	C
3pdbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} b) (\bar{\mu} \gamma^{\mu\nu\rho} \mu)$	C
5dbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b) (\bar{\mu} \mu)$	C
5pdbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b) (\bar{\mu} \mu)$	C
7dbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} b) (\bar{\mu} \sigma_{\mu\nu} \mu)$	C
7pdbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} b) (\bar{\mu} \sigma_{\mu\nu} \mu)$	C
9dbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} b) (\bar{\mu} \gamma^{\mu\nu\rho\sigma} \mu)$	C
9pdbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} b) (\bar{\mu} \gamma^{\mu\nu\rho\sigma} \mu)$	C
1dbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu b) (\bar{\tau} \gamma^\mu \tau)$	C
1pdbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu b) (\bar{\tau} \gamma^\mu \tau)$	C
3dbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} b) (\bar{\tau} \gamma^{\mu\nu\rho} \tau)$	C
3pdbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} b) (\bar{\tau} \gamma^{\mu\nu\rho} \tau)$	C
5dbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b) (\bar{\tau} \tau)$	C
5pdbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b) (\bar{\tau} \tau)$	C
7dbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} b) (\bar{\tau} \sigma_{\mu\nu} \tau)$	C
7pdbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} b) (\bar{\tau} \sigma_{\mu\nu} \tau)$	C
9dbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} b) (\bar{\tau} \gamma^{\mu\nu\rho\sigma} \tau)$	C
9pdbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} b) (\bar{\tau} \gamma^{\mu\nu\rho\sigma} \tau)$	C

#### sbemu

WC name	Operator	Type
1sbemu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_\mu b) (\bar{e} \gamma^\mu \mu)$	C
1psbemu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_\mu b) (\bar{e} \gamma^\mu \mu)$	C
3sbemu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_{\mu\nu\rho} b) (\bar{e} \gamma^{\mu\nu\rho} \mu)$	C
3psbemu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_{\mu\nu\rho} b) (\bar{e} \gamma^{\mu\nu\rho} \mu)$	C

WC name	Operator	Type
5sbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R b)(\bar{e}\mu)$	C
5psbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L b)(\bar{e}\mu)$	C
7sbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\mu)$	C
7psbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\mu)$	C
9sbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	C
9psbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	C

#### sbetau

WC name	Operator	Type
1sbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{e}\gamma^\mu\tau)$	C
1psbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{e}\gamma^\mu\tau)$	C
3sbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	C
3psbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	C
5sbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R b)(\bar{e}\tau)$	C
5psbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L b)(\bar{e}\tau)$	C
7sbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\tau)$	C
7psbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\tau)$	C
9sbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C
9psbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C

#### sbmue

WC name	Operator	Type
1sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu e)$	C
1psbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu e)$	C
3sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	C
3psbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	C
5sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R b)(\bar{\mu}e)$	C
5psbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L b)(\bar{\mu}e)$	C
7sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)$	C
7psbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)$	C
9sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	C
9psbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	C

**sbmutau**

WC name	Operator	Type
1sbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu\tau)$	C
1psbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu\tau)$	C
3sbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\tau)$	C
3psbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\tau)$	C
5sbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R b)(\bar{\mu}\tau)$	C
5psbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L b)(\bar{\mu}\tau)$	C
7sbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\tau)$	C
7psbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\tau)$	C
9sbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$	C
9psbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$	C

**sbtaue**

WC name	Operator	Type
1sbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu e)$	C
1psbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu e)$	C
3sbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	C
3psbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	C
5sbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R b)(\bar{\tau}e)$	C
5psbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L b)(\bar{\tau}e)$	C
7sbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)$	C
7psbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)$	C
9sbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)$	C
9psbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)$	C

**sbtaumu**

WC name	Operator	Type
1sbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$	C
1psbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$	C
3sbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	C
3psbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	C
5sbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R b)(\bar{\tau}\mu)$	C

WC name	Operator	Type
5psbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L b)(\bar{\tau}\mu)$	C
7sbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \sigma^{\mu\nu} b)(\bar{\tau}\sigma_{\mu\nu}\mu)$	C
7psbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \sigma^{\mu\nu} b)(\bar{\tau}\sigma_{\mu\nu}\mu)$	C
9sbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_{\mu\nu\rho\sigma} b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)$	C
9psbtaumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_{\mu\nu\rho\sigma} b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)$	C

#### dbemu

WC name	Operator	Type
1dbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu b)(\bar{e}\gamma^\mu \mu)$	C
1pdbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu b)(\bar{e}\gamma^\mu \mu)$	C
3dbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} b)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	C
3pdbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} b)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	C
5dbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{e}\mu)$	C
5pdbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{e}\mu)$	C
7dbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} b)(\bar{e}\sigma_{\mu\nu}\mu)$	C
7pdbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} b)(\bar{e}\sigma_{\mu\nu}\mu)$	C
9dbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	C
9pdbemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	C

#### dbetau

WC name	Operator	Type
1dbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu b)(\bar{e}\gamma^\mu \tau)$	C
1pdbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu b)(\bar{e}\gamma^\mu \tau)$	C
3dbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} b)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	C
3pdbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} b)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	C
5dbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{e}\tau)$	C
5pdbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{e}\tau)$	C
7dbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} b)(\bar{e}\sigma_{\mu\nu}\tau)$	C
7pdbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} b)(\bar{e}\sigma_{\mu\nu}\tau)$	C
9dbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C
9pdbetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C

dbmue

WC name	Operator	Type
1dbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu e)$	C
1pdbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu e)$	C
3dbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho} b)(\bar{\mu}\gamma^{\mu\nu\rho} e)$	C
3pdbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho} b)(\bar{\mu}\gamma^{\mu\nu\rho} e)$	C
5dbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{\mu} e)$	C
5pdbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{\mu} e)$	C
7dbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu} e)$	C
7pdbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\sigma^{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu} e)$	C
9dbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} e)$	C
9pdbmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma} b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} e)$	C

dbmutau

WC name	Operator	Type
1dbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu \tau)$	C
1pdbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu \tau)$	C
3dbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho} b)(\bar{\mu}\gamma^{\mu\nu\rho} \tau)$	C
3pdbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho} b)(\bar{\mu}\gamma^{\mu\nu\rho} \tau)$	C
5dbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{\mu} \tau)$	C
5pdbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{\mu} \tau)$	C
7dbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu} \tau)$	C
7pdbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\sigma^{\mu\nu} b)(\bar{\mu}\sigma_{\mu\nu} \tau)$	C
9dbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma} b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} \tau)$	C
9pdbmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma} b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} \tau)$	C

dbtaue

WC name	Operator	Type
1dbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu e)$	C
1pdbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu e)$	C
3dbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho} b)(\bar{\tau}\gamma^{\mu\nu\rho} e)$	C
3pdbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho} b)(\bar{\tau}\gamma^{\mu\nu\rho} e)$	C
5dbtaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{\tau} e)$	C

WC name	Operator	Type
5pdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L b)(\bar{\tau}e)$	C
7dbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)$	C
7pdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)$	C
9dbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)$	C
9pdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)$	C

#### dbtaumu

WC name	Operator	Type
1dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$	C
1pdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$	C
3dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	C
3pdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	C
5dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R b)(\bar{\tau}\mu)$	C
5pdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L b)(\bar{\tau}\mu)$	C
7dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\mu)$	C
7pdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\mu)$	C
9dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)$	C
9pdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)$	C

#### sbnunu

WC name	Operator	Type
nu1sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
nu1psbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
nu1sbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\mu)$	C
nu1psbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\mu)$	C
nu1sbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\tau)$	C
nu1psbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\tau)$	C
nu1sbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\mu)$	C
nu1psbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\mu)$	C
nu1sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	C
nu1psbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	C
nu1sbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\tau)$	C
nu1psbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\tau)$	C

WC name	Operator	Type
nu1sbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
nu1psbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
nu1sbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
nu1psbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
nu1sbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C
nu1psbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C

#### dbnunu

WC name	Operator	Type
nu1dbee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
nu1pdbee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
nu1dbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\mu)$	C
nu1pdbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\mu)$	C
nu1dbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\tau)$	C
nu1pdbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\tau)$	C
nu1dbemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\mu)$	C
nu1pdbemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\mu)$	C
nu1dbmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	C
nu1pdbmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	C
nu1dbetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\tau)$	C
nu1pdbetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\tau)$	C
nu1dbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
nu1pdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
nu1dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
nu1pdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
nu1dbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C
nu1pdbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C

#### sdsd

WC name	Operator	Type
1dsds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_\mu P_L s)(\bar{d}\gamma^\mu P_L s)$	C
5dsds	$\frac{4G_F}{\sqrt{2}}(\bar{d}_\alpha P_L s_\beta)(\bar{d}_\beta P_R s_\alpha)$	C
2dsds	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{d}P_L s)$	C

WC name	Operator	Type
1pdsds	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_R s)(\bar{d}\gamma^\mu P_R s)$	C
3dsds	$\frac{4G_F}{\sqrt{2}} (\bar{d}_\alpha P_L s_\beta)(\bar{d}_\beta P_L s_\alpha)$	C
2pdsds	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{d}P_R s)$	C
4dsds	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{d}P_R s)$	C
3pdsds	$\frac{4G_F}{\sqrt{2}} (\bar{d}_\alpha P_R s_\beta)(\bar{d}_\beta P_R s_\alpha)$	C

#### usenu

WC name	Operator	Type
1usee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R \gamma^\mu s)(\bar{e}\gamma_\mu \nu_e)$	C
5usee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{e}\nu_e)$	C
1pusee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \gamma^\mu s)(\bar{e}\gamma_\mu \nu_e)$	C
5pusee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{e}\nu_e)$	C
7pusee	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \sigma^{\mu\nu} s)(\bar{e}\sigma_{\mu\nu} \nu_e)$	C
1usemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R \gamma^\mu s)(\bar{e}\gamma_\mu \nu_\mu)$	C
5usemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{e}\nu_\mu)$	C
1pusemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \gamma^\mu s)(\bar{e}\gamma_\mu \nu_\mu)$	C
5pusemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{e}\nu_\mu)$	C
7pusemu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \sigma^{\mu\nu} s)(\bar{e}\sigma_{\mu\nu} \nu_\mu)$	C
1usetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R \gamma^\mu s)(\bar{e}\gamma_\mu \nu_\tau)$	C
5usetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{e}\nu_\tau)$	C
1pusetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \gamma^\mu s)(\bar{e}\gamma_\mu \nu_\tau)$	C
5pusetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{e}\nu_\tau)$	C
7pusetau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \sigma^{\mu\nu} s)(\bar{e}\sigma_{\mu\nu} \nu_\tau)$	C

#### usmunu

WC name	Operator	Type
1usmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R \gamma^\mu s)(\bar{\mu}\gamma_\mu \nu_e)$	C
5usmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{\mu}\nu_e)$	C
1pusmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \gamma^\mu s)(\bar{\mu}\gamma_\mu \nu_e)$	C
5pusmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{\mu}\nu_e)$	C
7pusmue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L \sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu} \nu_e)$	C
1usmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R \gamma^\mu s)(\bar{\mu}\gamma_\mu \nu_\mu)$	C
5usmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{\mu}\nu_\mu)$	C



WC name	Operator	Type
1pusmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5pusmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{\mu}\nu_\mu)$	C
7pusmumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu}\nu_\mu)$	C
1usmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5usmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{\mu}\nu_\tau)$	C
1pusmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5pusmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{\mu}\nu_\tau)$	C
7pusmutau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	C

#### ustaunu

WC name	Operator	Type
1ustaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_e)$	C
5ustaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{\tau}\nu_e)$	C
1pustaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_e)$	C
5pustaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{\tau}\nu_e)$	C
7pustaue	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	C
1ustaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5ustaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{\tau}\nu_\mu)$	C
1pustaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5pustaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{\tau}\nu_\mu)$	C
7pustaumu	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu}\nu_\mu)$	C
1ustautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5ustautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_R s)(\bar{\tau}\nu_\tau)$	C
1pustautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5pustautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L s)(\bar{\tau}\nu_\tau)$	C
7pustautau	$\frac{4G_F}{\sqrt{2}} (\bar{u}P_L\sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu}\nu_\tau)$	C

#### csenu

WC name	Operator	Type
1csee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu s)(\bar{e}\gamma_\mu\nu_e)$	C
5csee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R s)(\bar{e}\nu_e)$	C
1pcsee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu s)(\bar{e}\gamma_\mu\nu_e)$	C
5pcsee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L s)(\bar{e}\nu_e)$	C

WC name	Operator	Type
7pcsee	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_e)$	C
1cseu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu s)(\bar{e}\gamma_\mu\nu_\mu)$	C
5cseu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Rs)(\bar{e}\nu_\mu)$	C
1pcseu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu s)(\bar{e}\gamma_\mu\nu_\mu)$	C
5pcseu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Ls)(\bar{e}\nu_\mu)$	C
7pcseu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_\mu)$	C
1csetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu s)(\bar{e}\gamma_\mu\nu_\tau)$	C
5csetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Rs)(\bar{e}\nu_\tau)$	C
1pcsetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu s)(\bar{e}\gamma_\mu\nu_\tau)$	C
5pcsetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Ls)(\bar{e}\nu_\tau)$	C
7pcsetau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	C

#### csmunu

WC name	Operator	Type
1csmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_e)$	C
5csmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Rs)(\bar{\mu}\nu_e)$	C
1pcsmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_e)$	C
5pcsmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Ls)(\bar{\mu}\nu_e)$	C
7pcsmue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	C
1csmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5csmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Rs)(\bar{\mu}\nu_\mu)$	C
1pcsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\mu)$	C
5pcsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Ls)(\bar{\mu}\nu_\mu)$	C
7pcsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_\mu)$	C
1csmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5csmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Rs)(\bar{\mu}\nu_\tau)$	C
1pcsmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\tau)$	C
5pcsmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_Ls)(\bar{\mu}\nu_\tau)$	C
7pcsmutau	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	C

#### cstaunu

WC name	Operator	Type
1cstaue	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_e)$	C

WC name	Operator	Type
5cstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R s)(\bar{\tau}\nu_e)$	C
1pcstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_e)$	C
5pcstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L s)(\bar{\tau}\nu_e)$	C
7pcstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	C
1cstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5cstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R s)(\bar{\tau}\nu_\mu)$	C
1pcstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\mu)$	C
5pcstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L s)(\bar{\tau}\nu_\mu)$	C
7pcstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu}\nu_\mu)$	C
1cstautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5cstautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R s)(\bar{\tau}\nu_\tau)$	C
1pcstautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_\tau)$	C
5pcstautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L s)(\bar{\tau}\nu_\tau)$	C
7pcstautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu}\nu_\tau)$	C

**sdcu**

WC name	Operator	Type
1dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{u}\gamma^\mu c)$	C
2dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A s)(\bar{u}\gamma^\mu T^A c)$	C
3dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} s)(\bar{u}\gamma^{\mu\nu\rho} c)$	C
4dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} T^A s)(\bar{u}\gamma^{\mu\nu\rho} T^A c)$	C
5dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R s)(\bar{u}c)$	C
6dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R T^A s)(\bar{u}T^A c)$	C
7dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} s)(\bar{u}\sigma_{\mu\nu} c)$	C
8dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} T^A s)(\bar{u}\sigma_{\mu\nu} T^A c)$	C
9dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} s)(\bar{u}\gamma^{\mu\nu\rho\sigma} c)$	C
10dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} T^A s)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A c)$	C
1pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{u}\gamma^\mu c)$	C
2pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A s)(\bar{u}\gamma^\mu T^A c)$	C
3pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} s)(\bar{u}\gamma^{\mu\nu\rho} c)$	C
4pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} T^A s)(\bar{u}\gamma^{\mu\nu\rho} T^A c)$	C
5pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{u}c)$	C
6pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L T^A s)(\bar{u}T^A c)$	C
7pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} s)(\bar{u}\sigma_{\mu\nu} c)$	C
8pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} T^A s)(\bar{u}\sigma_{\mu\nu} T^A c)$	C

WC name	Operator	Type
9pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}c)$	C
10pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	C

### sdsc

WC name	Operator	Type
1dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{c}\gamma^\mu u)$	C
2dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^As)(\bar{c}\gamma^\mu T^Au)$	C
3dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{c}\gamma^{\mu\nu\rho}u)$	C
4dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^As)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	C
5dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{c}u)$	C
6dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^As)(\bar{c}T^Au)$	C
7dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{c}\sigma_{\mu\nu}u)$	C
8dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{c}\sigma_{\mu\nu}T^Au)$	C
9dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	C
10dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^As)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	C
1pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{c}\gamma^\mu u)$	C
2pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^As)(\bar{c}\gamma^\mu T^Au)$	C
3pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{c}\gamma^{\mu\nu\rho}u)$	C
4pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	C
5pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{c}u)$	C
6pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^As)(\bar{c}T^Au)$	C
7pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{c}\sigma_{\mu\nu}u)$	C
8pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{c}\sigma_{\mu\nu}T^Au)$	C
9pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	C
10pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	C

### sd

WC name	Operator	Type
7gammads	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_s(\bar{d}P_R\sigma_{\mu\nu}s)F^{\mu\nu}$	C
8gds	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_s(\bar{d}P_R\sigma_{\mu\nu}T^As)G_A^{\mu\nu}$	C
7pgammads	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_s(\bar{d}P_L\sigma_{\mu\nu}s)F^{\mu\nu}$	C
8pgds	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_s(\bar{d}P_L\sigma_{\mu\nu}T^As)G_A^{\mu\nu}$	C
1dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{u}\gamma^\mu u)$	C

WC name	Operator	Type
2dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A s)(\bar{u}\gamma^\mu T^A u)$	C
3dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} s)(\bar{u}\gamma^{\mu\nu\rho} u)$	C
4dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} T^A s)(\bar{u}\gamma^{\mu\nu\rho} T^A u)$	C
5dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R s)(\bar{u}u)$	C
6dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R T^A s)(\bar{u}T^A u)$	C
7dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} s)(\bar{u}\sigma_{\mu\nu} u)$	C
8dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} T^A s)(\bar{u}\sigma_{\mu\nu} T^A u)$	C
9dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} s)(\bar{u}\gamma^{\mu\nu\rho\sigma} u)$	C
10dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} T^A s)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A u)$	C
1pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{u}\gamma^\mu u)$	C
2pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A s)(\bar{u}\gamma^\mu T^A u)$	C
3pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} s)(\bar{u}\gamma^{\mu\nu\rho} u)$	C
4pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} T^A s)(\bar{u}\gamma^{\mu\nu\rho} T^A u)$	C
5pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{u}u)$	C
6pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L T^A s)(\bar{u}T^A u)$	C
7pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} s)(\bar{u}\sigma_{\mu\nu} u)$	C
8pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} T^A s)(\bar{u}\sigma_{\mu\nu} T^A u)$	C
9pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma} s)(\bar{u}\gamma^{\mu\nu\rho\sigma} u)$	C
10pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma} T^A s)(\bar{u}\gamma^{\mu\nu\rho\sigma} T^A u)$	C
1dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{c}\gamma^\mu c)$	C
2dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A s)(\bar{c}\gamma^\mu T^A c)$	C
3dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} s)(\bar{c}\gamma^{\mu\nu\rho} c)$	C
4dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} T^A s)(\bar{c}\gamma^{\mu\nu\rho} T^A c)$	C
5dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R s)(\bar{c}c)$	C
6dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R T^A s)(\bar{c}T^A c)$	C
7dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} s)(\bar{c}\sigma_{\mu\nu} c)$	C
8dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu} T^A s)(\bar{c}\sigma_{\mu\nu} T^A c)$	C
9dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} s)(\bar{c}\gamma^{\mu\nu\rho\sigma} c)$	C
10dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma} T^A s)(\bar{c}\gamma^{\mu\nu\rho\sigma} T^A c)$	C
1pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{c}\gamma^\mu c)$	C
2pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A s)(\bar{c}\gamma^\mu T^A c)$	C
3pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} s)(\bar{c}\gamma^{\mu\nu\rho} c)$	C
4pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho} T^A s)(\bar{c}\gamma^{\mu\nu\rho} T^A c)$	C
5pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{c}c)$	C
6pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L T^A s)(\bar{c}T^A c)$	C
7pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} s)(\bar{c}\sigma_{\mu\nu} c)$	C
8pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu} T^A s)(\bar{c}\sigma_{\mu\nu} T^A c)$	C

WC name	Operator	Type
9pdscc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	C
10pdscc	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^A s)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^A c)$	C
1dsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu s)(\bar{s}\gamma^\mu s)$	C
3dsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{s}\gamma^{\mu\nu\rho}s)$	C
5dsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{s}s)$	C
7dsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu}s)(\bar{s}\sigma_{\mu\nu}s)$	C
9dsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	C
1pdsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu s)(\bar{s}\gamma^\mu s)$	C
3pdsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{s}\gamma^{\mu\nu\rho}s)$	C
5pdsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{s}s)$	C
7pdsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\sigma^{\mu\nu}s)(\bar{s}\sigma_{\mu\nu}s)$	C
9pdsss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	C
1dsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_L s)(\bar{d}\gamma^\mu d)$	C
1pdsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_R s)(\bar{d}\gamma^\mu d)$	C
3dsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho} P_L s)(\bar{d}\gamma^{\mu\nu\rho} d)$	C
3pdsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho} P_R s)(\bar{d}\gamma^{\mu\nu\rho} d)$	C
5dsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{d}d)$	C
5pdsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{d}d)$	C
7dsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\sigma^{\mu\nu} P_L s)(\bar{d}\sigma_{\mu\nu} d)$	C
7pdsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\sigma^{\mu\nu} P_R s)(\bar{d}\sigma_{\mu\nu} d)$	C
9dsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho\sigma} P_L s)(\bar{d}\gamma^{\mu\nu\rho\sigma} d)$	C
9pdsdd	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho\sigma} P_R s)(\bar{d}\gamma^{\mu\nu\rho\sigma} d)$	C
1dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu s)(\bar{b}\gamma^\mu b)$	C
2dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu T^A s)(\bar{b}\gamma^\mu T^A b)$	C
3dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{b}\gamma^{\mu\nu\rho} b)$	C
4dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho} T^A s)(\bar{b}\gamma^{\mu\nu\rho} T^A b)$	C
5dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{b}b)$	C
6dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R T^A s)(\bar{b}T^A b)$	C
7dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu}s)(\bar{b}\sigma_{\mu\nu} b)$	C
8dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu} T^A s)(\bar{b}\sigma_{\mu\nu} T^A b)$	C
9dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{b}\gamma^{\mu\nu\rho\sigma} b)$	C
10dsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma} T^A s)(\bar{b}\gamma^{\mu\nu\rho\sigma} T^A b)$	C
1pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu s)(\bar{b}\gamma^\mu b)$	C
2pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu T^A s)(\bar{b}\gamma^\mu T^A b)$	C
3pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{b}\gamma^{\mu\nu\rho} b)$	C
4pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho} T^A s)(\bar{b}\gamma^{\mu\nu\rho} T^A b)$	C
5pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{b}b)$	C

WC name	Operator	Type
6pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L T^A s)(\bar{b}T^A b)$	C
7pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{b}\sigma_{\mu\nu} b)$	C
8pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} T^A s)(\bar{b}\sigma_{\mu\nu} T^A b)$	C
9pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{b}\gamma^{\mu\nu\rho\sigma} b)$	C
10pdsbb	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} T^A s)(\bar{b}\gamma^{\mu\nu\rho\sigma} T^A b)$	C
1dsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{e}\gamma^\mu e)$	C
1pdsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{e}\gamma^\mu e)$	C
3dsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s)(\bar{e}\gamma^{\mu\nu\rho} e)$	C
3pdsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s)(\bar{e}\gamma^{\mu\nu\rho} e)$	C
5dsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{e}e)$	C
5pdsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{e}e)$	C
7dsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{e}\sigma_{\mu\nu} e)$	C
7pdsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{e}\sigma_{\mu\nu} e)$	C
9dsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} s)(\bar{e}\gamma^{\mu\nu\rho\sigma} e)$	C
9pdsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{e}\gamma^{\mu\nu\rho\sigma} e)$	C
1dsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\mu}\gamma^\mu \mu)$	C
1pdsdumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\mu}\gamma^\mu \mu)$	C
3dsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s)(\bar{\mu}\gamma^{\mu\nu\rho} \mu)$	C
3pdsdumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s)(\bar{\mu}\gamma^{\mu\nu\rho} \mu)$	C
5dsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{\mu}\mu)$	C
5pdsdumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{\mu}\mu)$	C
7dsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu} \mu)$	C
7pdsdumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu} \mu)$	C
9dsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} \mu)$	C
9pdsdumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} \mu)$	C
1dstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\tau}\gamma^\mu \tau)$	C
1pdstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\tau}\gamma^\mu \tau)$	C
3dstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s)(\bar{\tau}\gamma^{\mu\nu\rho} \tau)$	C
3pdstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s)(\bar{\tau}\gamma^{\mu\nu\rho} \tau)$	C
5dstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{\tau}\tau)$	C
5pdstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{\tau}\tau)$	C
7dstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu} \tau)$	C
7pdstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu} \tau)$	C
9dstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma} \tau)$	C
9pdstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma} \tau)$	C

**sdmue**

WC name	Operator	Type
1dsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu s)(\bar{e}\gamma^\mu\mu)$	C
1pdsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu s)(\bar{e}\gamma^\mu\mu)$	C
3dsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	C
3pdsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	C
5dsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{e}\mu)$	C
5pdsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{e}\mu)$	C
7dsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\mu)$	C
7pdsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\mu)$	C
9dsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	C
9pdsemu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	C

**sdtaue**

WC name	Operator	Type
1dsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu s)(\bar{e}\gamma^\mu\tau)$	C
1pdsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu s)(\bar{e}\gamma^\mu\tau)$	C
3dsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	C
3pdsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	C
5dsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{e}\tau)$	C
5pdsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{e}\tau)$	C
7dsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\tau)$	C
7pdsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\tau)$	C
9dsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C
9pdsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C

**sdemu**

WC name	Operator	Type
1dsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_\mu s)(\bar{\mu}\gamma^\mu e)$	C
1pdsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_\mu s)(\bar{\mu}\gamma^\mu e)$	C
3dsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	C
3pdsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	C
5dsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{\mu}e)$	C



WC name	Operator	Type
5pdsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{\mu}e)$	C
7dsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu}e)$	C
7pdsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu}e)$	C
9dsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	C
9pdsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	C

#### sdtaumu

WC name	Operator	Type
1dsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\mu}\gamma^\mu \tau)$	C
1pdsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\mu}\gamma^\mu \tau)$	C
3dsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s)(\bar{\mu}\gamma^{\mu\nu\rho} \tau)$	C
3pdsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s)(\bar{\mu}\gamma^{\mu\nu\rho} \tau)$	C
5dsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{\mu}\tau)$	C
5pdsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{\mu}\tau)$	C
7dsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu} \tau)$	C
7pdsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{\mu}\sigma_{\mu\nu} \tau)$	C
9dsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} \tau)$	C
9pdsmtau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma} \tau)$	C

#### sdetau

WC name	Operator	Type
1dstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\tau}\gamma^\mu e)$	C
1pdstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\tau}\gamma^\mu e)$	C
3dstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s)(\bar{\tau}\gamma^{\mu\nu\rho} e)$	C
3pdstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s)(\bar{\tau}\gamma^{\mu\nu\rho} e)$	C
5dstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{\tau}e)$	C
5pdstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{\tau}e)$	C
7dstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu} e)$	C
7pdstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{\tau}\sigma_{\mu\nu} e)$	C
9dstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma} e)$	C
9pdstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma} e)$	C

**sdmutable**

WC name	Operator	Type
1dstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\tau} \gamma^\mu \mu)$	C
1pdstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\tau} \gamma^\mu \mu)$	C
3dstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho} s)(\bar{\tau} \gamma^{\mu\nu\rho} \mu)$	C
3pdstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s)(\bar{\tau} \gamma^{\mu\nu\rho} \mu)$	C
5dstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R s)(\bar{\tau} \mu)$	C
5pdstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L s)(\bar{\tau} \mu)$	C
7dstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \sigma^{\mu\nu} s)(\bar{\tau} \sigma_{\mu\nu} \mu)$	C
7pdstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \sigma^{\mu\nu} s)(\bar{\tau} \sigma_{\mu\nu} \mu)$	C
9dstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu\nu\rho\sigma} s)(\bar{\tau} \gamma^{\mu\nu\rho\sigma} \mu)$	C
9pdstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho\sigma} s)(\bar{\tau} \gamma^{\mu\nu\rho\sigma} \mu)$	C

**sdnunu**

WC name	Operator	Type
nu1dsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_e \gamma^\mu \nu_e)$	C
nu1pdsee	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_e \gamma^\mu \nu_e)$	C
nu1dsmumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_\mu \gamma^\mu \nu_\mu)$	C
nu1pdsdumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_\mu \gamma^\mu \nu_\mu)$	C
nu1dstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_\tau \gamma^\mu \nu_\tau)$	C
nu1pdstautau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_\tau \gamma^\mu \nu_\tau)$	C
nu1dseu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_e \gamma^\mu \nu_\mu)$	C
nu1pdseu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_e \gamma^\mu \nu_\mu)$	C
nu1dsmue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_\mu \gamma^\mu \nu_e)$	C
nu1pdsdumue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_\mu \gamma^\mu \nu_e)$	C
nu1dsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_e \gamma^\mu \nu_\tau)$	C
nu1pdsetau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_e \gamma^\mu \nu_\tau)$	C
nu1dstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_\tau \gamma^\mu \nu_e)$	C
nu1pdstaue	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_\tau \gamma^\mu \nu_e)$	C
nu1dstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_\tau \gamma^\mu \nu_\mu)$	C
nu1pdstaumu	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_\tau \gamma^\mu \nu_\mu)$	C
nu1dsmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_\mu s)(\bar{\nu}_\mu \gamma^\mu \nu_\tau)$	C
nu1pdsdmutau	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L \gamma_\mu s)(\bar{\nu}_\mu \gamma^\mu \nu_\tau)$	C

**cucu**

WC name	Operator	Type
1cucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}\gamma_\mu P_L u)(\bar{c}\gamma^\mu P_L u)$	C
5cucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}_\alpha P_L u_\beta)(\bar{c}_\beta P_R u_\alpha)$	C
2cucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L u)(\bar{c}P_L u)$	C
1pcucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}\gamma_\mu P_R u)(\bar{c}\gamma^\mu P_R u)$	C
3cucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}_\alpha P_L u_\beta)(\bar{c}_\beta P_L u_\alpha)$	C
2pcucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_R u)(\bar{c}P_R u)$	C
4cucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}P_L u)(\bar{c}P_R u)$	C
3pcucu	$\frac{4G_F}{\sqrt{2}} (\bar{c}_\alpha P_R u_\beta)(\bar{c}_\beta P_R u_\alpha)$	C