

## Basis AFGV (EFT WET)

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

### Sectors

#### 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

WC name	Operator	Type
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

#### 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
7gammas	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{s}P_R\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8gs	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{s}P_R\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	C
7pgammas	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{s}P_L\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8pgs	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{s}P_L\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	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
7gammad	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{d}P_R\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8gd	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{d}P_R\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	C
7pgammad	$\frac{4G_F}{\sqrt{2}}\frac{e}{g_s^2}m_b(\bar{d}P_L\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8pgd	$\frac{4G_F}{\sqrt{2}}\frac{1}{g_s}m_b(\bar{d}P_L\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	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	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{u}u)$	C
6pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{u}T^Au)$	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
1dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{d}\gamma^\mu d)$	C
2dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^Ab)(\bar{d}\gamma^\mu T^Ad)$	C
3dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu\rho}d)$	C
4dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{d}\gamma^{\mu\nu\rho}T^Ad)$	C
5dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{d}d)$	C
6dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{d}T^Ad)$	C
7dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{d}\sigma_{\mu\nu}d)$	C
8dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{d}\sigma_{\mu\nu}T^Ad)$	C
9dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	C
10dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)$	C
1pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{d}\gamma^\mu d)$	C
2pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^Ab)(\bar{d}\gamma^\mu T^Ad)$	C
3pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu\rho}d)$	C
4pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{d}\gamma^{\mu\nu\rho}T^Ad)$	C
5pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}d)$	C
6pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{d}T^Ad)$	C
7pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{d}\sigma_{\mu\nu}d)$	C
8pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{d}\sigma_{\mu\nu}T^Ad)$	C
9pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	C
10pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)$	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	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{c}c)$	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
1dbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_L b)(\bar{s}\gamma^\mu s)$	C
1pdbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_\mu P_R b)(\bar{s}\gamma^\mu s)$	C
3dbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho} P_L b)(\bar{s}\gamma^{\mu\nu\rho} s)$	C
3pdbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho} P_R b)(\bar{s}\gamma^{\mu\nu\rho} s)$	C
5dbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_L b)(\bar{s}s)$	C
5pdbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}P_R b)(\bar{s}s)$	C
7dbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\sigma^{\mu\nu} P_L b)(\bar{s}\sigma_{\mu\nu} s)$	C
7pdbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\sigma^{\mu\nu} P_R b)(\bar{s}\sigma_{\mu\nu} s)$	C
9dbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho\sigma} P_L b)(\bar{s}\gamma^{\mu\nu\rho\sigma} s)$	C
9pdbss	$\frac{4G_F}{\sqrt{2}} (\bar{d}\gamma_{\mu\nu\rho\sigma} P_R b)(\bar{s}\gamma^{\mu\nu\rho\sigma} s)$	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
Lsbee	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_\mu b)(\bar{\nu}_e \gamma^\mu \nu_e)$	C
Rsbee	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_\mu b)(\bar{\nu}_e \gamma^\mu \nu_e)$	C
Lsbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_\mu b)(\bar{\nu}_\mu \gamma^\mu \nu_\mu)$	C
Rsbmumu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_\mu b)(\bar{\nu}_\mu \gamma^\mu \nu_\mu)$	C
Lsbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_\mu b)(\bar{\nu}_\tau \gamma^\mu \nu_\tau)$	C
Rsbtautau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_\mu b)(\bar{\nu}_\tau \gamma^\mu \nu_\tau)$	C
Lsbemu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_\mu b)(\bar{\nu}_e \gamma^\mu \nu_\mu)$	C
Rsbemu	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_\mu b)(\bar{\nu}_e \gamma^\mu \nu_\mu)$	C
Lsbmue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_\mu b)(\bar{\nu}_\mu \gamma^\mu \nu_e)$	C
Rsbmue	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_\mu b)(\bar{\nu}_\mu \gamma^\mu \nu_e)$	C
Lsbetau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_R \gamma_\mu b)(\bar{\nu}_e \gamma^\mu \nu_\tau)$	C
Rsbetau	$\frac{4G_F}{\sqrt{2}} (\bar{s}P_L \gamma_\mu b)(\bar{\nu}_e \gamma^\mu \nu_\tau)$	C

WC name	Operator	Type
Lsbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
Rsbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
Lsbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
Rsbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
Lsbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C
Rsbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C

dbnunu

WC name	Operator	Type
Ldbee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
Rdbee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
Ldbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\mu)$	C
Rdbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\mu)$	C
Ldbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\tau)$	C
Rdbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\tau)$	C
Ldbemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\mu)$	C
Rdbemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\mu)$	C
Ldbmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	C
Rdbmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	C
Ldbetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\tau)$	C
Rdbetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_\tau)$	C
Ldbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
Rdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	C
Ldbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
Rdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	C
Ldbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C
Rdbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_\tau)$	C