Basis JMS (EFT WET-2)

Variant of the basis suggested by Jenkins, Manohar, and Stoffer (arXiv:1709.04486) with only two dynamical quark flavors.

Sectors

nunununu

WC name	Operator	Type
VnunuLL_1112	$(\bar{\nu}_{eL}\gamma^{\mu} u_{eL})(\bar{\nu}_{eL}\gamma_{\mu} u_{\mu L})$	
VnunuLL_1222	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{\mu L}\gamma_{\mu} u_{\mu L})$	\mathbf{C}
VnunuLL_1233	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{ au L}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_1113	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{ u}_{eL}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_1223	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{\mu L}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_1333	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ u}_{ au L}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_1123	$(\bar{ u}_{eL}\gamma^{\mu} u_{eL})(\bar{ u}_{\mu L}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_2223	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{ u}_{\mu L} \gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_2333	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{ u}_{ au L} \gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_1232	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{ au L}\gamma_{\mu} u_{\mu L})$	\mathbf{C}
VnunuLL_1323	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ u}_{\mu L}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_1213	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{eL}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_1212	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{ u}_{eL}\gamma_{\mu} u_{\mu L})$	\mathbf{C}
VnunuLL_1313	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{ u}_{eL}\gamma_{\mu} u_{ au L})$	\mathbf{C}
VnunuLL_2323	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (\bar{ u}_{\mu L} \gamma_{\mu} u_{ au L})$	C

dF=0

WC name	Operator	Type
egamma_11	$\bar{e}_L \sigma^{\mu u} e_R F_{\mu u}$	C
ugamma_11	$ar{u}_L \sigma^{\mu u} u_R \dot{F}_{\mu u}$	$^{\mathrm{C}}$
dgamma_11	$ar{d}_L \sigma^{\mu u} d_R F_{\mu u}$	\mathbf{C}
uG_11	$ar{u}_L \sigma^{\mu u} T^A u_R^{\prime} G^A_{\mu u}$	$^{\mathrm{C}}$
dG_11	$ar{d}_L \sigma^{\mu u} T^A d_R G^A_{\mu u}$	\mathbf{C}
G	$f^{ABC}G^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ ho}$	${ m R}$
Gtilde	$f^{ABC}\widetilde{G}^{A u}_{\mu}G^{B ho}_{ u}G^{C\mu}_{ u}$	R
VnunuLL_1111	$(ar{ u}_{eL}\gamma^{\mu}ar{ u}_{eL})(ar{ u}_{eL}\gamma_{\mu}ar{ u}_{eL})$	${ m R}$
VnunuLL_1122	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ u}_{\mu L}\gamma_{\mu} u_{\mu L})$	${ m R}$
VnunuLL_1133	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{ u}_{ au L}\gamma_{\mu} u_{ au L})$	${ m R}$
VnunuLL_2222	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{ u}_{\mu L} \gamma_{\mu} u_{\mu L})$	R
VnunuLL_2233	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (\bar{ u}_{\tau L} \gamma_{\mu} u_{\tau L})$	${ m R}$

WC name	Operator	Type
VnunuLL_3333	$(\bar{\nu}_{\tau L} \gamma^{\mu} \nu_{\tau L})(\bar{\nu}_{\tau L} \gamma_{\mu} \nu_{\tau L})$	${ m R}$
VeeLL_1111	$(ar{e}_L \gamma^\mu e_L) (ar{e}_L \gamma_\mu e_L)$	R
VnueLL_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{L}\gamma_{\mu}e_{L})$	R
VnueLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{e}_L \gamma_{\mu} e_L)$	R
VnueLL_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_{L} \gamma_{\mu} e_{L})$	R
VnuuLL_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{u}_{L}\gamma_{\mu}u_{L})$	R
VnuuLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{u}_L \gamma_{\mu} u_L)$	R
VnuuLL_3311	$(ar u_{ au L} \gamma^\mu u_{ au L}) (ar u_L \gamma_\mu u_L)$	${ m R}$
VnudLL_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_{L}\gamma_{\mu}d_{L})$	${ m R}$
VnudLL_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{d}_L \gamma_{\mu} d_L)$	R
VnudLL_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{d}_L \gamma_{\mu} d_L)$	R
VeuLL_1111	$(ar{e}_L \gamma^\mu e_L) (ar{u}_L \gamma_\mu u_L)$	R
VedLL_1111	$(ar{e}_L \gamma^\mu e_L) (ar{d}_L \gamma_\mu d_L)$	R
VuuLL_1111	$(\bar{u}_L\gamma^\mu u_L)(\bar{u}_L\gamma_\mu u_L)$	R
VddLL_1111	$(ar{d}_L \gamma^\mu d_L) (ar{d}_L \gamma_\mu d_L)$	R
V1udLL_1111	$(ar{u}_L \gamma^\mu u_L) (ar{d}_L \gamma_\mu d_L)$	R
V8udLL_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_L \gamma_\mu T^A d_L)$	${ m R}$
VeeRR_1111	$(\bar{e}_R \gamma^\mu e_R)(\bar{e}_R \gamma_\mu e_R)$	${ m R}$
VeuRR_1111	$(\bar{e}_R \gamma^\mu e_R)(\bar{u}_R \gamma_\mu u_R)$	R
VedRR_1111	$(ar{e}_R \gamma^\mu e_R) (ar{d}_R \gamma_\mu d_R)$	R
VuuRR_1111	$(\bar{u}_R \gamma^\mu u_R)(\bar{u}_R \gamma_\mu u_R)$	R
VddRR_1111	$(ar{d}_R \gamma^\mu d_R) (ar{d}_R \gamma_\mu d_R)$	R
V1udRR_1111	$(ar{u}_R\gamma^\mu u_R)(ar{d}_R\gamma_\mu d_R)$	${ m R}$
V8udRR_1111	$(\bar{u}_R \gamma^\mu T^A u_R)(\bar{d}_R \gamma_\mu T^A d_R)$	${ m R}$
VnueLR_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{e}_{R}\gamma_{\mu}e_{R})$	${ m R}$
VnueLR_2211	$(ar u_{\mu L} \gamma^\mu u_{\mu L}) (ar e_R \gamma_\mu e_R)$	${ m R}$
VnueLR_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{e}_R \gamma_{\mu} e_R)$	R
VeeLR_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{e}_R \gamma_\mu e_R)$	R
VnuuLR_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{u}_{R}\gamma_{\mu}u_{R})$	R
VnuuLR_2211	$(\bar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (\bar{u}_R \gamma_{\mu} u_R)$	R
VnuuLR_3311	$(\bar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (\bar{u}_R \gamma_{\mu} u_R)$	R
VnudLR_1111	$(ar{ u}_{eL}\gamma^{\mu} u_{eL})(ar{d}_R\gamma_{\mu}d_R)$	R
VnudLR_2211	$(ar{ u}_{\mu L} \gamma^{\mu} u_{\mu L}) (ar{d}_R \gamma_{\mu} d_R)$	R
VnudLR_3311	$(ar{ u}_{ au L} \gamma^{\mu} u_{ au L}) (ar{d}_R \gamma_{\mu} d_R)$	${ m R}$
VeuLR_1111	$(ar{e}_L \gamma^\mu e_L) (ar{u}_R \gamma_\mu u_R)$	R
VedLR_1111	$(ar{e}_L \gamma^\mu e_L) (ar{d}_R \gamma_\mu d_R)$	${ m R}$
VueLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu e_R)$	R
VdeLR_1111	$(ar{d}_L \gamma^\mu d_L) (ar{e}_R \gamma_\mu e_R)$	${ m R}$
V1uuLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{u}_R \gamma_\mu u_R)$	${ m R}$
V8uuLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{u}_R \gamma_\mu T^A u_R)$	R
V1udLR_1111	$(ar{u}_L \gamma^\mu u_L) (ar{d}_R \gamma_\mu d_R)$	${ m R}$
V8udLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L) (\bar{d}_R \gamma_\mu T^A d_R)$	${ m R}$
V1duLR_1111	$(ar{d}_L \gamma^\mu d_L)(ar{u}_R \gamma_\mu u_R)$	R

WC name	Operator	Type
V8duLR_1111	$(\bar{d}_L \gamma^\mu T^A d_L)(\bar{u}_R \gamma_\mu T^A u_R)$	R
V1ddLR_1111	$(ar{d}_L\gamma^\mu d_L)(ar{d}_R\gamma_\mu d_R)$	R
V8ddLR_1111	$(ar{d}_L \gamma^\mu T^A d_L) (ar{d}_R \gamma_\mu T^A d_R)$	${ m R}$
V1udduLR_1111	$(ar{u}_L \gamma^\mu d_L) (ar{d}_R \gamma_\mu u_R)$	\mathbf{C}
V8udduLR_1111	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A u_R)$	\mathbf{C}
SeuRL_1111	$(ar{e}_L e_R)(ar{u}_R u_L)$	$^{\mathrm{C}}$
SedRL_1111	$(ar{e}_L e_R)(ar{d}_R d_L)$	\mathbf{C}
SeeRR_1111	$(\bar{e}_L e_R)(\bar{e}_L e_R)$	\mathbf{C}
SeuRR_1111	$(\bar{e}_L e_R)(\bar{u}_L u_R)$	$^{\mathrm{C}}$
TeuRR_1111	$(\bar{e}_L \sigma^{\mu u} e_R) (\bar{u}_L \sigma_{\mu u} u_R)$	$^{\mathrm{C}}$
SedRR_1111	$(ar{e}_L e_R)(ar{d}_L d_R)$	\mathbf{C}
TedRR_1111	$(ar{e}_L\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}d_R)$	\mathbf{C}
S1uuRR_1111	$(ar{u}_L u_R)(ar{u}_L u_R)$	\mathbf{C}
S8uuRR_1111	$(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$	$^{\mathrm{C}}$
S1udRR_1111	$(ar{u}_L u_R)(ar{d}_L d_R)$	\mathbf{C}
S8udRR_1111	$(\bar{u}_L T^A u_R)(\bar{d}_L T^A d_R)$	\mathbf{C}
S1ddRR_1111	$(ar{d}_L d_R)(ar{d}_L d_R)$	\mathbf{C}
S8ddRR_1111	$(\bar{d}_L T^A d_R)(\bar{d}_L T^A d_R)$	\mathbf{C}
S1udduRR_1111	$(ar{u}_L d_R)(ar{ar{d}_L} u_R)$	\mathbf{C}
S8udduRR_1111	$(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	$^{\mathrm{C}}$
VnueLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{L}\gamma_{\mu}e_{L})$	\mathbf{C}
VnuuLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{u}_{L}\gamma_{\mu}u_{L})$	\mathbf{C}
VnudLL_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_{L}\gamma_{\mu}d_{L})$	\mathbf{C}
VnueLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{e}_{R}\gamma_{\mu}e_{R})$	\mathbf{C}
VnuuLR_1211	$(\bar{ u}_{eL}\gamma^{\mu} u_{\mu L})(\bar{u}_{R}\gamma_{\mu}u_{R})$	$^{\mathrm{C}}$
VnudLR_1211	$(ar{ u}_{eL}\gamma^{\mu} u_{\mu L})(ar{d}_{R}\gamma_{\mu}d_{R})$	\mathbf{C}
VnueLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{L}\gamma_{\mu}e_{L})$	\mathbf{C}
VnuuLL_1311	$(\bar{ u}_{eL}\gamma^{\mu} u_{\tau L})(\bar{u}_{L}\gamma_{\mu}u_{L})$	$^{\mathrm{C}}$
VnudLL_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{L}\gamma_{\mu}d_{L})$	\mathbf{C}
VnueLR_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{e}_{R}\gamma_{\mu}e_{R})$	\mathbf{C}
VnuuLR_1311	$(\bar{ u}_{eL}\gamma^{\mu} u_{ au L})(\bar{u}_{R}\gamma_{\mu}u_{R})$	$^{\mathrm{C}}$
VnudLR_1311	$(ar{ u}_{eL}\gamma^{\mu} u_{ au L})(ar{d}_{R}\gamma_{\mu}d_{R})$	\mathbf{C}
VnueLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{e}_L \gamma_{\mu} e_L)$	$^{\mathrm{C}}$
VnuuLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{u}_L \gamma_{\mu} u_L)$	$^{\mathrm{C}}$
VnudLL_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{d}_L \gamma_{\mu} d_L)$	\mathbf{C}
VnueLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{e}_R \gamma_{\mu} e_R)$	\mathbf{C}
VnuuLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{u}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
VnudLR_2311	$(ar{ u}_{\mu L} \gamma^{\mu} u_{ au L}) (ar{d}_R \gamma_{\mu} d_R)$	$^{\mathrm{C}}$

udenu

WC name	Operator	Type
VnueduLL_1111	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{d}_L\gamma_{\mu}u_L)$	$^{\rm C}$
VnueduLR_1111	$(ar{ u}_{eL}\gamma^{\mu}e_L)(ar{d}_R\gamma_{\mu}u_R)$	\mathbf{C}
SnueduRL_1111	$(ar{ u}_{eL}e_R)(ar{d}_Ru_L)$	$^{\mathrm{C}}$
SnueduRR_1111	$(ar{ u}_{eL}e_R)(ar{d}_Lu_R)$	$^{\mathrm{C}}$
TnueduRR_1111	$(ar{ u}_{eL}\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}u_R)$	\mathbf{C}
VnueduLL_2111	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{d}_L \gamma_{\mu} u_L)$	\mathbf{C}
VnueduLR_2111	$(ar{ u}_{\mu L} \gamma^{\mu} e_L) (ar{d}_R \gamma_{\mu} u_R)$	$^{\mathrm{C}}$
SnueduRL_2111	$(ar{ u}_{\mu L}e_R)(ar{d}_Ru_L)$	\mathbf{C}
SnueduRR_2111	$(ar{ u}_{\mu L}e_R)(ar{d}_Lu_R)$	\mathbf{C}
TnueduRR_2111	$(\bar{ u}_{\mu L}\sigma^{\mu u}e_R)(\bar{d}_L\sigma_{\mu u}u_R)$	\mathbf{C}
VnueduLL_3111	$(ar{ u}_{ au L} \gamma^{\mu} e_L) (ar{d}_L \gamma_{\mu} u_L)$	\mathbf{C}
VnueduLR_3111	$(\bar{ u}_{ au L} \gamma^{\mu} e_L) (\bar{d}_R \gamma_{\mu} u_R)$	\mathbf{C}
SnueduRL_3111	$(ar{ u}_{ au L} e_R)(ar{ar{d}}_R u_L)$	\mathbf{C}
SnueduRR_3111	$(ar{ u}_{ au L} e_R)(ar{d}_L u_R)$	\mathbf{C}
TnueduRR_3111	$(ar{ u}_{ au L}\sigma^{\mu u}e_R)(ar{d}_L\sigma_{\mu u}u_R)$	\mathbf{C}