

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	$(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\nu}_{eL}\gamma_\mu\nu_{\mu L})$	C
VnunuLL_1222	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\mu L})$	C
VnunuLL_1233	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{\tau L}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_1113	$(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\nu}_{eL}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_1223	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_1333	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{\nu}_{\tau L}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_1123	$(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_2223	$(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_2333	$(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{\nu}_{\tau L}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_1232	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{\tau L}\gamma_\mu\nu_{\mu L})$	C
VnunuLL_1323	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_1213	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{eL}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_1212	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{eL}\gamma_\mu\nu_{\mu L})$	C
VnunuLL_1313	$(\bar{\nu}_{eL}\gamma^\mu\nu_{\tau L})(\bar{\nu}_{eL}\gamma_\mu\nu_{\tau L})$	C
VnunuLL_2323	$(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\tau L})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\tau L})$	C

dF=0

WC name	Operator	Type
egamma_11	$\bar{e}_L\sigma^{\mu\nu}e_R F_{\mu\nu}$	C
ugamma_11	$\bar{u}_L\sigma^{\mu\nu}u_R F_{\mu\nu}$	C
dgamma_11	$\bar{d}_L\sigma^{\mu\nu}d_R F_{\mu\nu}$	C
uG_11	$\bar{u}_L\sigma^{\mu\nu}T^A u_R G_{\mu\nu}^A$	C
dG_11	$\bar{d}_L\sigma^{\mu\nu}T^A d_R G_{\mu\nu}^A$	C
G	$f^{ABC} G_{\mu}^{A\nu} G_{\nu}^{B\rho} G_{\rho}^{C\mu}$	R
Gtilde	$f^{ABC} \tilde{G}_{\mu}^{A\nu} G_{\nu}^{B\rho} G_{\rho}^{C\mu}$	R
VnunuLL_1111	$(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\nu}_{eL}\gamma_\mu\nu_{eL})$	R
VnunuLL_1122	$(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\mu L})$	R
VnunuLL_1133	$(\bar{\nu}_{eL}\gamma^\mu\nu_{eL})(\bar{\nu}_{\tau L}\gamma_\mu\nu_{\tau L})$	R
VnunuLL_2222	$(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{\mu L}\gamma_\mu\nu_{\mu L})$	R
VnunuLL_2233	$(\bar{\nu}_{\mu L}\gamma^\mu\nu_{\mu L})(\bar{\nu}_{\tau L}\gamma_\mu\nu_{\tau L})$	R

WC name	Operator	Type
VnunuLL_3333	$(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{\nu}_{\tau L} \gamma_\mu \nu_{\tau L})$	R
VeeLL_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{e}_L \gamma_\mu e_L)$	R
VnueLL_1111	$(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{e}_L \gamma_\mu e_L)$	R
VnueLL_2211	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{e}_L \gamma_\mu e_L)$	R
VnueLL_3311	$(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{e}_L \gamma_\mu e_L)$	R
VnuuLL_1111	$(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{u}_L \gamma_\mu u_L)$	R
VnuuLL_2211	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{u}_L \gamma_\mu u_L)$	R
VnuuLL_3311	$(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{u}_L \gamma_\mu u_L)$	R
VnudLL_1111	$(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{d}_L \gamma_\mu d_L)$	R
VnudLL_2211	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{d}_L \gamma_\mu d_L)$	R
VnudLL_3311	$(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{d}_L \gamma_\mu d_L)$	R
VeULL_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{u}_L \gamma_\mu u_L)$	R
VedLL_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{d}_L \gamma_\mu d_L)$	R
VuuLL_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{u}_L \gamma_\mu u_L)$	R
VddLL_1111	$(\bar{d}_L \gamma^\mu d_L)(\bar{d}_L \gamma_\mu d_L)$	R
V1udLL_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{d}_L \gamma_\mu d_L)$	R
V8udLL_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_L \gamma_\mu T^A d_L)$	R
VeeRR_1111	$(\bar{e}_R \gamma^\mu e_R)(\bar{e}_R \gamma_\mu e_R)$	R
VeRR_1111	$(\bar{e}_R \gamma^\mu e_R)(\bar{u}_R \gamma_\mu u_R)$	R
VedRR_1111	$(\bar{e}_R \gamma^\mu e_R)(\bar{d}_R \gamma_\mu d_R)$	R
VuuRR_1111	$(\bar{u}_R \gamma^\mu u_R)(\bar{u}_R \gamma_\mu u_R)$	R
VddRR_1111	$(\bar{d}_R \gamma^\mu d_R)(\bar{d}_R \gamma_\mu d_R)$	R
V1udRR_1111	$(\bar{u}_R \gamma^\mu u_R)(\bar{d}_R \gamma_\mu d_R)$	R
V8udRR_1111	$(\bar{u}_R \gamma^\mu T^A u_R)(\bar{d}_R \gamma_\mu T^A d_R)$	R
VnueLR_1111	$(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{e}_R \gamma_\mu e_R)$	R
VnueLR_2211	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{e}_R \gamma_\mu e_R)$	R
VnueLR_3311	$(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{e}_R \gamma_\mu e_R)$	R
VeeLR_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{e}_R \gamma_\mu e_R)$	R
VnuuLR_1111	$(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{u}_R \gamma_\mu u_R)$	R
VnuuLR_2211	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{u}_R \gamma_\mu u_R)$	R
VnuuLR_3311	$(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{u}_R \gamma_\mu u_R)$	R
VnudLR_1111	$(\bar{\nu}_{eL} \gamma^\mu \nu_{eL})(\bar{d}_R \gamma_\mu d_R)$	R
VnudLR_2211	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\mu L})(\bar{d}_R \gamma_\mu d_R)$	R
VnudLR_3311	$(\bar{\nu}_{\tau L} \gamma^\mu \nu_{\tau L})(\bar{d}_R \gamma_\mu d_R)$	R
VeLR_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{u}_R \gamma_\mu u_R)$	R
VedLR_1111	$(\bar{e}_L \gamma^\mu e_L)(\bar{d}_R \gamma_\mu d_R)$	R
VueLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{e}_R \gamma_\mu e_R)$	R
VdeLR_1111	$(\bar{d}_L \gamma^\mu d_L)(\bar{e}_R \gamma_\mu e_R)$	R
V1uuLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{u}_R \gamma_\mu u_R)$	R
V8uuLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{u}_R \gamma_\mu T^A u_R)$	R
V1udLR_1111	$(\bar{u}_L \gamma^\mu u_L)(\bar{d}_R \gamma_\mu d_R)$	R
V8udLR_1111	$(\bar{u}_L \gamma^\mu T^A u_L)(\bar{d}_R \gamma_\mu T^A d_R)$	R
V1duLR_1111	$(\bar{d}_L \gamma^\mu d_L)(\bar{u}_R \gamma_\mu u_R)$	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	$(\bar{d}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu d_R)$	R
V8ddLR_1111	$(\bar{d}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A d_R)$	R
V1udduLR_1111	$(\bar{u}_L \gamma^\mu d_L)(\bar{d}_R \gamma_\mu u_R)$	C
V8udduLR_1111	$(\bar{u}_L \gamma^\mu T^A d_L)(\bar{d}_R \gamma_\mu T^A u_R)$	C
SeuRL_1111	$(\bar{e}_L e_R)(\bar{u}_R u_L)$	C
SedRL_1111	$(\bar{e}_L e_R)(\bar{d}_R d_L)$	C
SeeRR_1111	$(\bar{e}_L e_R)(\bar{e}_L e_R)$	C
SeuRR_1111	$(\bar{e}_L e_R)(\bar{u}_L u_R)$	C
TeuRR_1111	$(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{u}_L \sigma_{\mu\nu} u_R)$	C
SedRR_1111	$(\bar{e}_L e_R)(\bar{d}_L d_R)$	C
TedRR_1111	$(\bar{e}_L \sigma^{\mu\nu} e_R)(\bar{d}_L \sigma_{\mu\nu} d_R)$	C
S1uuRR_1111	$(\bar{u}_L u_R)(\bar{u}_L u_R)$	C
S8uuRR_1111	$(\bar{u}_L T^A u_R)(\bar{u}_L T^A u_R)$	C
S1udRR_1111	$(\bar{u}_L u_R)(\bar{d}_L d_R)$	C
S8udRR_1111	$(\bar{u}_L T^A u_R)(\bar{d}_L T^A d_R)$	C
S1ddRR_1111	$(\bar{d}_L d_R)(\bar{d}_L d_R)$	C
S8ddRR_1111	$(\bar{d}_L T^A d_R)(\bar{d}_L T^A d_R)$	C
S1udduRR_1111	$(\bar{u}_L d_R)(\bar{d}_L u_R)$	C
S8udduRR_1111	$(\bar{u}_L T^A d_R)(\bar{d}_L T^A u_R)$	C
VnueLL_1211	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{e}_L \gamma_\mu e_L)$	C
VnuuLL_1211	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{u}_L \gamma_\mu u_L)$	C
VnudLL_1211	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{d}_L \gamma_\mu d_L)$	C
VnueLR_1211	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{e}_R \gamma_\mu e_R)$	C
VnuuLR_1211	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{u}_R \gamma_\mu u_R)$	C
VnudLR_1211	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\mu L})(\bar{d}_R \gamma_\mu d_R)$	C
VnueLL_1311	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{e}_L \gamma_\mu e_L)$	C
VnuuLL_1311	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{u}_L \gamma_\mu u_L)$	C
VnudLL_1311	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{d}_L \gamma_\mu d_L)$	C
VnueLR_1311	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{e}_R \gamma_\mu e_R)$	C
VnuuLR_1311	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{u}_R \gamma_\mu u_R)$	C
VnudLR_1311	$(\bar{\nu}_{eL} \gamma^\mu \nu_{\tau L})(\bar{d}_R \gamma_\mu d_R)$	C
VnueLL_2311	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{e}_L \gamma_\mu e_L)$	C
VnuuLL_2311	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{u}_L \gamma_\mu u_L)$	C
VnudLL_2311	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{d}_L \gamma_\mu d_L)$	C
VnueLR_2311	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{e}_R \gamma_\mu e_R)$	C
VnuuLR_2311	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{u}_R \gamma_\mu u_R)$	C
VnudLR_2311	$(\bar{\nu}_{\mu L} \gamma^\mu \nu_{\tau L})(\bar{d}_R \gamma_\mu d_R)$	C

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