

Bin	$\sigma/\sigma_{\text{SM}}$ scaling
QQ2HQQ_FWDH	$1 + 0.011 c_{\text{HB}} + 0.121 c_{\text{H}\square} - 0.003 c_{\text{Hd}} - 0.009 c_{\text{HD}} + 0.001 c_{\text{He}} -$ $0.056 c_{\text{Hq}}^{(1)} + 0.351 c_{\text{Hq}}^{(3)} + 0.001 c_{\text{HI}}^{(1)} - 0.333 c_{\text{HI}}^{(3)} - 0.001 c_{\text{HQ}}^{(1)} -$ $0.001 c_{\text{HQ}}^{(3)} + 0.043 c_{\text{Hu}} + 0.232 c_{\text{HW}} + 0.051 c_{\text{HWB}} + 0.159 c'_{\text{ll}}$
QQ2HQQ_0J	$1 + 0.007 c_{\text{HB}} + 0.121 c_{\text{H}\square} - 0.004 c_{\text{Hd}} - 0.012 c_{\text{HD}} + 0.003 c_{\text{Hq}}^{(1)} +$ $0.249 c_{\text{Hq}}^{(3)} - 0.342 c_{\text{HI}}^{(3)} + 0.002 c_{\text{HQ}}^{(1)} + 0.002 c_{\text{HQ}}^{(3)} + 0.018 c_{\text{Hu}} +$ $0.191 c_{\text{HW}} + 0.036 c_{\text{HWB}} + 0.165 c'_{\text{ll}}$
QQ2HQQ_1J	$1 + 0.008 c_{\text{HB}} + 0.121 c_{\text{H}\square} - 0.011 c_{\text{Hd}} - 0.010 c_{\text{HD}} + 0.001 c_{\text{He}} -$ $0.002 c_{\text{Hq}}^{(1)} + 0.301 c_{\text{Hq}}^{(3)} + 0.001 c_{\text{HI}}^{(1)} - 0.339 c_{\text{HI}}^{(3)} + 0.031 c_{\text{Hu}} +$ $0.235 c_{\text{HW}} + 0.048 c_{\text{HWB}} + 0.164 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_0.60	$1 + 0.005 c_{\text{HB}} + 0.121 c_{\text{H}\square} - 0.017 c_{\text{Hd}} - 0.010 c_{\text{HD}} + 0.002 c_{\text{He}} -$ $0.027 c_{\text{Hq}}^{(1)} + 0.807 c_{\text{Hq}}^{(3)} + 0.002 c_{\text{HI}}^{(1)} - 0.324 c_{\text{HI}}^{(3)} - 0.002 c_{\text{HQ}}^{(1)} -$ $0.002 c_{\text{HQ}}^{(3)} + 0.037 c_{\text{Hu}} + 0.388 c_{\text{HW}} + 0.061 c_{\text{HWB}} + 0.152 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_60_120	$1 + 0.025 c_{\text{HB}} + 0.121 c_{\text{H}\square} - 0.056 c_{\text{Hd}} - 0.001 c_{\text{HD}} + 0.004 c_{\text{He}} -$ $0.028 c_{\text{Hq}}^{(1)} + 1.828 c_{\text{Hq}}^{(3)} + 0.004 c_{\text{HI}}^{(1)} - 0.297 c_{\text{HI}}^{(3)} + 0.010 c_{\text{HQ}}^{(1)} +$ $0.010 c_{\text{HQ}}^{(3)} + 0.166 c_{\text{Hu}} + 0.614 c_{\text{HW}} + 0.106 c_{\text{HWB}} + 0.132 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_120_350	$1 + 0.003 c_{\text{HB}} + 0.121 c_{\text{H}\square} + 0.002 c_{\text{Hd}} - 0.007 c_{\text{HD}} - 0.005 c_{\text{Hq}}^{(1)} -$ $0.050 c_{\text{Hq}}^{(3)} - 0.350 c_{\text{HI}}^{(3)} - 0.001 c_{\text{HQ}}^{(1)} - 0.001 c_{\text{HQ}}^{(3)} + 0.004 c_{\text{Hu}} +$ $0.060 c_{\text{HW}} + 0.043 c_{\text{HWB}} + 0.171 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_GT350_PTH_GT200	$1 + 0.001 c_{\text{HB}} + 0.121 c_{\text{H}\square} + 0.003 c_{\text{Hb}} + 0.057 c_{\text{Hd}} - 0.006 c_{\text{HD}} +$ $0.013 c_{\text{Hq}}^{(1)} - 1.280 c_{\text{Hq}}^{(3)} - 0.360 c_{\text{HI}}^{(3)} - 0.009 c_{\text{HQ}}^{(1)} - 0.009 c_{\text{HQ}}^{(3)} -$ $0.092 c_{\text{Hu}} + 0.202 c_{\text{HW}} + 0.031 c_{\text{HWB}} + 0.179 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_350_700_PTH_0_200_PTHJJ_0_25	$1 + 0.002 c_{\text{HB}} + 0.121 c_{\text{H}\square} + 0.008 c_{\text{Hd}} - 0.009 c_{\text{HD}} - 0.005 c_{\text{Hq}}^{(1)} -$ $0.356 c_{\text{Hq}}^{(3)} - 0.363 c_{\text{HI}}^{(3)} - 0.005 c_{\text{HQ}}^{(1)} - 0.005 c_{\text{HQ}}^{(3)} - 0.021 c_{\text{Hu}} -$ $0.119 c_{\text{HW}} + 0.025 c_{\text{HWB}} + 0.181 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_350_700_PTH_0_200_PTHJJ_GT25	$1 + 0.004 c_{\text{HB}} + 0.121 c_{\text{H}\square} + 0.008 c_{\text{Hd}} - 0.009 c_{\text{HD}} + 0.004 c_{\text{Hq}}^{(1)} -$ $0.305 c_{\text{Hq}}^{(3)} - 0.359 c_{\text{HI}}^{(3)} - 0.006 c_{\text{HQ}}^{(1)} - 0.006 c_{\text{HQ}}^{(3)} - 0.015 c_{\text{Hu}} -$ $0.100 c_{\text{HW}} + 0.030 c_{\text{HWB}} + 0.178 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_GT700_PTH_0_200_PTHJJ_0_25	$1 - 0.002 c_{\text{HB}} + 0.121 c_{\text{H}\square} + 0.007 c_{\text{Hd}} - 0.011 c_{\text{HD}} + 0.012 c_{\text{Hq}}^{(1)} -$ $0.359 c_{\text{Hq}}^{(3)} - 0.364 c_{\text{HI}}^{(3)} - 0.003 c_{\text{HQ}}^{(1)} - 0.003 c_{\text{HQ}}^{(3)} - 0.023 c_{\text{Hu}} -$ $0.111 c_{\text{HW}} + 0.023 c_{\text{HWB}} + 0.182 c'_{\text{ll}}$
QQ2HQQ_GE2J_MJJ_GT700_PTH_0_200_PTHJJ_GT25	$1 + 0.003 c_{\text{HB}} + 0.121 c_{\text{H}\square} + 0.007 c_{\text{Hd}} - 0.008 c_{\text{HD}} + 0.023 c_{\text{Hq}}^{(1)} -$ $0.420 c_{\text{Hq}}^{(3)} - 0.363 c_{\text{HI}}^{(3)} - 0.005 c_{\text{HQ}}^{(1)} - 0.005 c_{\text{HQ}}^{(3)} - 0.027 c_{\text{Hu}} -$ $0.149 c_{\text{HW}} + 0.024 c_{\text{HWB}} + 0.181 c'_{\text{ll}}$