

| | | alpha_CR12_shape_E_ggf_17_dEta_1_Xhh_1 | alpha_CR12_shape_E_ggf_17_dEta_1_Xhh_2 | alpha_CR12_shape_E_ggf_17_dEta_2_Xhh_1 | alpha_CR12_shape_E_ggf_17_dEta_2_Xhh_2 | alpha_CR12_shape_E_ggf_17_dEta_3_Xhh_1 | alpha_CR12_shape_E_ggf_17_dEta_3_Xhh_2 | alpha_CR12_shape_E_vbf_-1_dEta_1 | alpha_CR12_shape_E_vbf_-1_dEta_2 | alpha_CR12_shape_N_ggf_17_dEta_1_Xhh_1 | alpha_CR12_shape_N_ggf_17_dEta_1_Xhh_2 | alpha_CR12_shape_N_ggf_17_dEta_2_Xhh_1 | alpha_CR12_shape_N_ggf_17_dEta_2_Xhh_2 | alpha_CR12_shape_N_ggf_17_dEta_3_Xhh_1 | alpha_CR12_shape_N_ggf_17_dEta_3_Xhh_2 | alpha_CR12_shape_N_vbf_-1_dEta_1 | alpha_CR12_shape_N_vbf_-1_dEta_2 | alpha_CR12_shape_S_ggf_17_dEta_1_Xhh_1 | alpha_CR12_shape_S_ggf_17_dEta_1_Xhh_2 | alpha_CR12_shape_S_ggf_17_dEta_2_Xhh_1 | alpha_CR12_shape_S_ggf_17_dEta_2_Xhh_2 | alpha_CR12_shape_S_ggf_17_dEta_3_Xhh_1 | alpha_CR12_shape_S_ggf_17_dEta_3_Xhh_2 | alpha_CR12_shape_S_vbf_-1_dEta_1 | alpha_CR12_shape_S_vbf_-1_dEta_2 | alpha_CR12_shape_W_ggf_17_dEta_1_Xhh_1 | alpha_CR12_shape_W_ggf_17_dEta_1_Xhh_2 | alpha_CR12_shape_W_ggf_17_dEta_2_Xhh_1 | alpha_CR12_shape_W_ggf_17_dEta_2_Xhh_2 | alpha_CR12_shape_W_ggf_17_dEta_3_Xhh_1 | alpha_CR12_shape_W_ggf_17_dEta_3_Xhh_2 | alpha_CR12_shape_W_vbf_-1_dEta_1 | alpha_CR12_shape_W_vbf_-1_dEta_2 | alpha_NC_3b1f_ggf_17_dEta_1_Xhh_1 | alpha_NC_3b1f_ggf_17_dEta_1_Xhh_2 | alpha_NC_3b1f_ggf_17_dEta_2_Xhh_1 | alpha_NC_3b1f_ggf_17_dEta_2_Xhh_2 | alpha_NC_3b1f_ggf_17_dEta_3_Xhh_1 | alpha_NC_3b1f_ggf_17_dEta_3_Xhh_2 | mu | | | |
|--|-----------------------------------|--|--|--|--|--|--|----------------------------------|----------------------------------|--|--|--|--|--|--|----------------------------------|----------------------------------|--|--|--|--|--|--|----------------------------------|----------------------------------|--|--|--|--|--|--|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|-------|-------|-------|
| mu | | -0.01 | -0.00 | -0.00 | 0.00 | 0.01 | -0.00 | 0.00 | -0.00 | -0.00 | -0.01 | -0.00 | -0.00 | 0.01 | -0.01 | 0.00 | -0.00 | -0.01 | -0.00 | -0.00 | -0.00 | -0.00 | 0.01 | -0.01 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.01 | -0.00 | -0.01 | -0.00 | -0.00 | -0.00 | -0.00 | 0.01 | 0.00 | -1.00 | | |
| | alpha_NC_3b1f_ggf_17_dEta_3_Xhh_2 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -1.00 | 0.00 | | |
| | alpha_NC_3b1f_ggf_17_dEta_3_Xhh_1 | 0.01 | 0.00 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | -0.00 | 0.01 | 0.00 | 0.00 | -0.00 | -0.01 | -0.00 | 0.00 | -0.00 | 0.01 | 0.00 | 0.00 | 0.00 | -0.00 | -0.01 | -0.00 | -0.00 | 0.01 | 0.01 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -1.00 | 0.00 | 0.01 | |
| | alpha_NC_3b1f_ggf_17_dEta_2_Xhh_2 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -1.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | | |
| | alpha_NC_3b1f_ggf_17_dEta_2_Xhh_1 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | | |
| | alpha_NC_3b1f_ggf_17_dEta_1_Xhh_2 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -1.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | | |
| | alpha_NC_3b1f_ggf_17_dEta_1_Xhh_1 | -0.01 | -0.00 | -0.00 | -0.00 | 0.01 | -0.00 | -0.00 | 0.00 | -0.01 | -0.00 | -0.00 | 0.01 | -0.00 | -0.00 | -0.00 | -0.01 | -0.00 | -0.01 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -0.00 | 0.01 | 0.00 | -0.01 | -0.00 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -1.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.01 | |
| | alpha_CR12_shape_W_vbf_-1_dEta_2 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -1.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | | |
| | alpha_CR12_shape_W_vbf_-1_dEta_1 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -1.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | | |
| alpha_CR12_shape_W_ggf_17_dEta_3_Xhh_2 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.01 | -1.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | | |
| alpha_CR12_shape_W_ggf_17_dEta_3_Xhh_1 | 0.01 | 0.01 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | 0.01 | 0.01 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | 0.01 | 0.01 | 0.00 | -0.00 | -1.00 | 0.01 | 0.00 | -0.00 | 0.01 | -0.00 | 0.01 | -0.00 | 0.01 | -0.00 | -0.01 | 0.00 | 0.01 | |
| alpha_CR12_shape_W_ggf_17_dEta_2_Xhh_2 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | |
| alpha_CR12_shape_W_ggf_17_dEta_2_Xhh_1 | -0.01 | -0.00 | -0.01 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.01 | -0.00 | -0.01 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.01 | -0.00 | -0.01 | 0.00 | 0.00 | -0.00 | -0.01 | 0.00 | -0.00 | 0.00 | -0.01 | -0.00 | -1.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.01 | 0.00 | -0.01 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | |
| alpha_CR12_shape_W_ggf_17_dEta_1_Xhh_2 | -0.01 | -0.00 | -0.00 | 0.00 | 0.01 | -0.00 | -0.00 | 0.00 | -0.01 | -0.00 | -0.00 | 0.00 | 0.01 | -0.00 | -0.00 | 0.00 | -0.01 | -0.01 | -0.00 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | 0.01 | 0.00 | -0.01 | -1.00 | -0.00 | 0.00 | 0.01 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.01 | 0.00 | -0.00 | | |
| alpha_CR12_shape_W_ggf_17_dEta_1_Xhh_1 | -0.01 | -0.00 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -0.00 | -0.01 | -0.01 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -0.00 | -0.01 | -0.01 | -0.01 | 0.00 | 0.01 | -0.00 | -0.01 | 0.00 | 0.01 | -0.00 | -0.01 | -1.00 | -0.01 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -0.00 | -0.01 | -0.00 | -0.00 | -0.00 | 0.01 | 0.00 | -0.00 | |
| alpha_CR12_shape_S_vbf_-1_dEta_2 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -1.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | |
| alpha_CR12_shape_S_vbf_-1_dEta_1 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | |
| alpha_CR12_shape_S_ggf_17_dEta_3_Xhh_2 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.01 | | |
| alpha_CR12_shape_S_ggf_17_dEta_3_Xhh_1 | 0.01 | 0.01 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | 0.01 | 0.01 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | 0.00 | -0.00 | -1.00 | 0.00 | 0.00 | -0.00 | 0.01 | 0.01 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | 0.01 | 0.00 | -0.00 | 0.01 | 0.00 | 0.00 | -0.01 | -0.00 | 0.01 | |
| alpha_CR12_shape_S_ggf_17_dEta_2_Xhh_2 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | | |
| alpha_CR12_shape_S_ggf_17_dEta_2_Xhh_1 | -0.01 | -0.00 | -0.01 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.01 | -0.00 | -0.01 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.01 | -0.00 | -0.01 | 0.00 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | -0.00 | -0.01 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.01 | -0.00 | -0.01 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | |
| alpha_CR12_shape_S_ggf_17_dEta_1_Xhh_2 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -1.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | |
| alpha_CR12_shape_S_ggf_17_dEta_1_Xhh_1 | -0.01 | -0.00 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -0.00 | -0.01 | -0.01 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -0.00 | -0.01 | -1.00 | -0.00 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | 0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.00 | 0.01 | -0.00 | -0.00 | -0.00 | -0.01 | -0.01 | 0.00 | 0.01 | -0.00 | 0.00 | 0.01 | -0.00 | -0.01 |
| alpha_CR12_shape_N_vbf_-1_dEta_2 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -1.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | |
| alpha_CR12_shape_N_vbf_-1_dEta_1 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -1.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | |
| alpha_CR12_shape_N_ggf_17_dEta_3_Xhh_2 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -1.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.00 | -0.00 | -0.00 | -0.01 | | |
| alpha_CR12_shape_N_ggf_17_dEta_3_Xhh_1 | 0.01 | 0.01 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | -0.00 | 0.01 | 0.01 | 0.00 | -0.00 | -1.00 | 0.00 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | 0.01 | 0.01 | 0.00 | -0.00 | -0.02 | 0.00 | 0.00 | -0.00 | 0.01 | -0.00 | 0.01 | -0.00 | 0.00 | -0.01 | 0.00 | 0.01 | | |
| alpha_CR12_shape_N_ggf_17_dEta_2_Xhh_2 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -1.00 | -0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | 0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | |
| alpha_CR12_shape_N_ggf_17_dEta_2_Xhh_1 | -0.01 | -0.00 | -0.01 | -0.00 | 0.00 | -0.00 | -0.00 | -0.00 | -0.01 | -0.00 | -1.00 | -0.00 | 0.00 | 0.01 | -0.00 | 0.00 | -0.01 | -0.01 | -0.01 | 0.00 | 0.00 | 0.00 | -0.00 | -0.01 | 0.00 | 0.00 | -0.00 | -0.01 | -0.00 | -0.01 | 0.00 | 0.00 | | | | | | | | | | | |