

$ \phi_f $ (rad) and p_T^γ [GeV] bin	$\sigma/\sigma_{\text{SM}}$ scaling
$0 < \phi_f < \pi/6, 150 < p_T^\gamma < 200$	$1 - 0.380 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.588 c_{\text{HI}}^{(3)} - 1.017 c_{\text{HWB}} + 0.161 c_{\text{lq}}^{(3)} + 0.122 c'_{\text{ll}} - 0.167 c_{\text{W}}$
$0 < \phi_f < \pi/6, 200 < p_T^\gamma < 300$	$1 - 0.380 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.589 c_{\text{HI}}^{(3)} - 1.081 c_{\text{HWB}} + 0.168 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} - 0.394 c_{\text{W}}$
$0 < \phi_f < \pi/6, 300 < p_T^\gamma < 500$	$1 - 0.389 c_{\text{HD}} + 0.041 c_{\text{Hq}}^{(3)} - 0.597 c_{\text{HI}}^{(3)} - 1.124 c_{\text{HWB}} + 0.258 c_{\text{lq}}^{(3)} + 0.122 c'_{\text{ll}} - 0.961 c_{\text{W}}$
$0 < \phi_f < \pi/6, 500 < p_T^\gamma < 800$	$1 - 0.415 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.640 c_{\text{HI}}^{(3)} - 1.058 c_{\text{HWB}} + 0.396 c_{\text{lq}}^{(3)} + 0.122 c'_{\text{ll}} - 2.432 c_{\text{W}}$
$0 < \phi_f < \pi/6, 800 < p_T^\gamma < 1500$	$1 - 0.407 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.629 c_{\text{HI}}^{(3)} - 0.978 c_{\text{HWB}} + 0.666 c_{\text{lq}}^{(3)} + 0.122 c'_{\text{ll}} - 5.247 c_{\text{W}}$
$\pi/6 < \phi_f < \pi/3, 150 < p_T^\gamma < 200$	$1 - 0.380 c_{\text{HD}} + 0.044 c_{\text{Hq}}^{(3)} - 0.595 c_{\text{HI}}^{(3)} - 0.922 c_{\text{HWB}} + 0.151 c_{\text{lq}}^{(3)} + 0.124 c'_{\text{ll}} + 0.038 c_{\text{W}}$
$\pi/6 < \phi_f < \pi/3, 200 < p_T^\gamma < 300$	$1 - 0.380 c_{\text{HD}} + 0.043 c_{\text{Hq}}^{(3)} - 0.592 c_{\text{HI}}^{(3)} - 0.941 c_{\text{HWB}} + 0.194 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} + 0.046 c_{\text{W}}$
$\pi/6 < \phi_f < \pi/3, 300 < p_T^\gamma < 500$	$1 - 0.388 c_{\text{HD}} + 0.043 c_{\text{Hq}}^{(3)} - 0.603 c_{\text{HI}}^{(3)} - 0.970 c_{\text{HWB}} + 0.220 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} + 0.036 c_{\text{W}}$
$\pi/6 < \phi_f < \pi/3, 500 < p_T^\gamma < 800$	$1 - 0.415 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.643 c_{\text{HI}}^{(3)} - 0.963 c_{\text{HWB}} + 0.458 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} + 0.048 c_{\text{W}}$
$\pi/6 < \phi_f < \pi/3, 800 < p_T^\gamma < 1500$	$1 - 0.407 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.629 c_{\text{HI}}^{(3)} - 0.912 c_{\text{HWB}} + 0.657 c_{\text{lq}}^{(3)} + 0.122 c'_{\text{ll}} + 0.088 c_{\text{W}}$
$\pi/3 < \phi_f < \pi/2, 150 < p_T^\gamma < 200$	$1 - 0.380 c_{\text{HD}} + 0.043 c_{\text{Hq}}^{(3)} - 0.591 c_{\text{HI}}^{(3)} - 0.850 c_{\text{HWB}} + 0.131 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} + 0.223 c_{\text{W}}$
$\pi/3 < \phi_f < \pi/2, 200 < p_T^\gamma < 300$	$1 - 0.380 c_{\text{HD}} + 0.043 c_{\text{Hq}}^{(3)} - 0.590 c_{\text{HI}}^{(3)} - 0.863 c_{\text{HWB}} + 0.146 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} + 0.439 c_{\text{W}}$
$\pi/3 < \phi_f < \pi/2, 300 < p_T^\gamma < 500$	$1 - 0.388 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.602 c_{\text{HI}}^{(3)} - 0.882 c_{\text{HWB}} + 0.231 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} + 1.013 c_{\text{W}}$
$\pi/3 < \phi_f < \pi/2, 500 < p_T^\gamma < 800$	$1 - 0.415 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.643 c_{\text{HI}}^{(3)} - 0.922 c_{\text{HWB}} + 0.411 c_{\text{lq}}^{(3)} + 0.123 c'_{\text{ll}} + 2.368 c_{\text{W}}$
$\pi/3 < \phi_f < \pi/2, 800 < p_T^\gamma < 1500$	$1 - 0.407 c_{\text{HD}} + 0.042 c_{\text{Hq}}^{(3)} - 0.630 c_{\text{HI}}^{(3)} - 0.836 c_{\text{HWB}} + 0.597 c_{\text{lq}}^{(3)} + 0.122 c'_{\text{ll}} + 5.223 c_{\text{W}}$