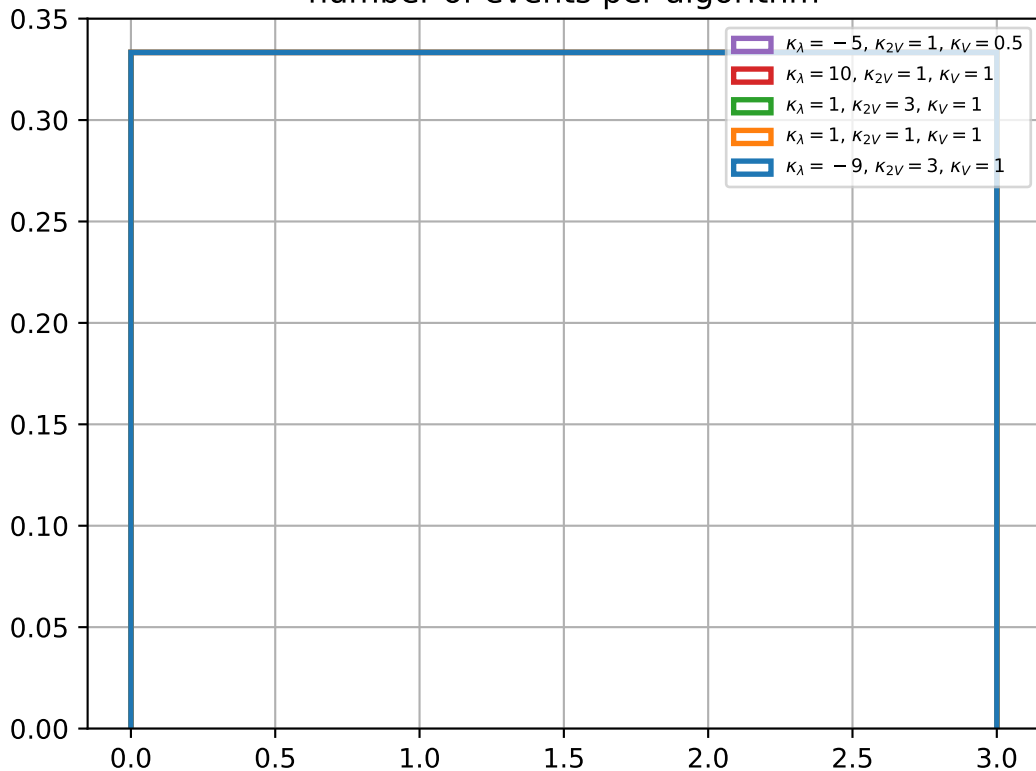
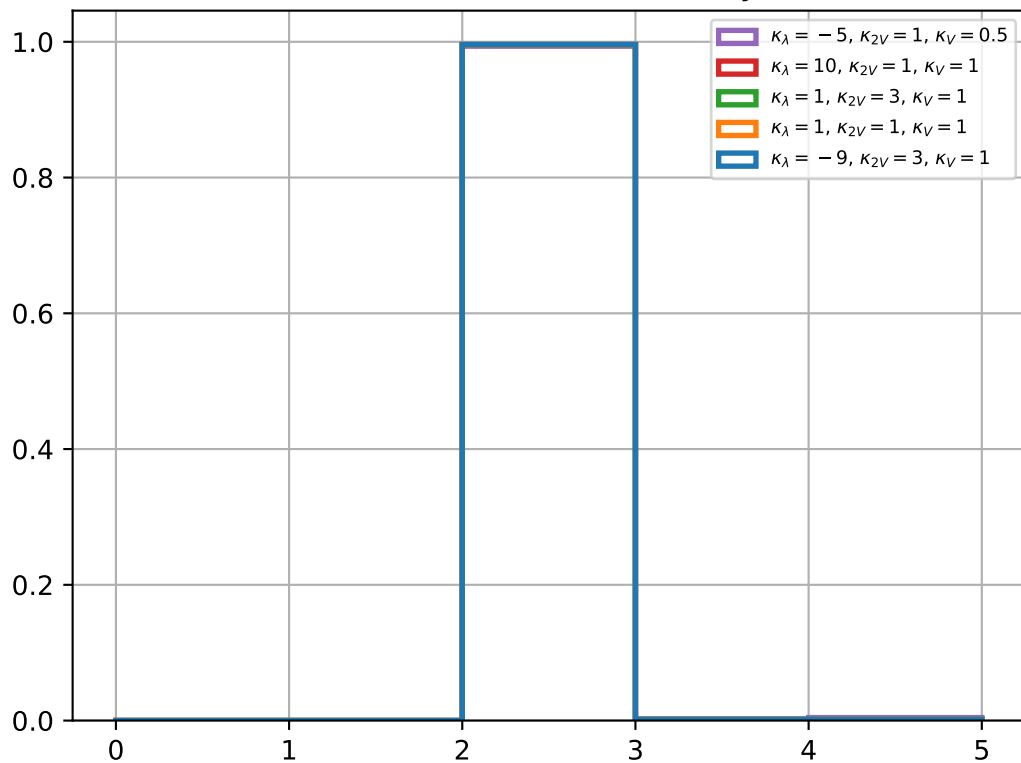


# Kinematic Validation Plots for VBF HH 4b

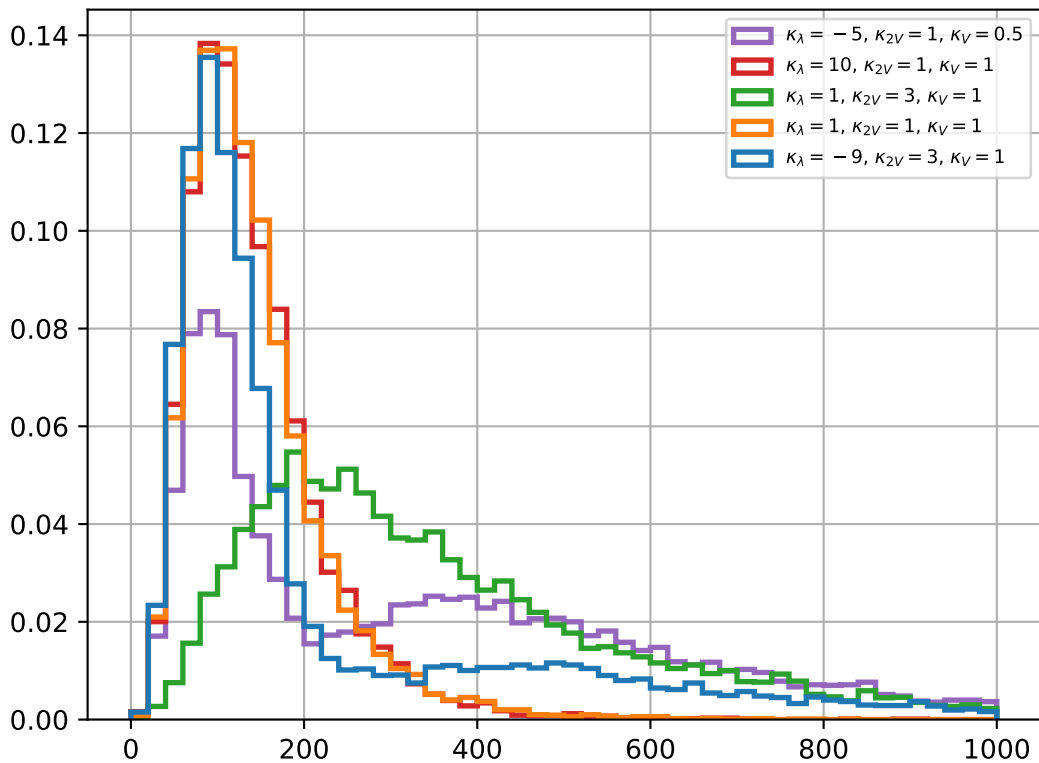
number of events per algorithm



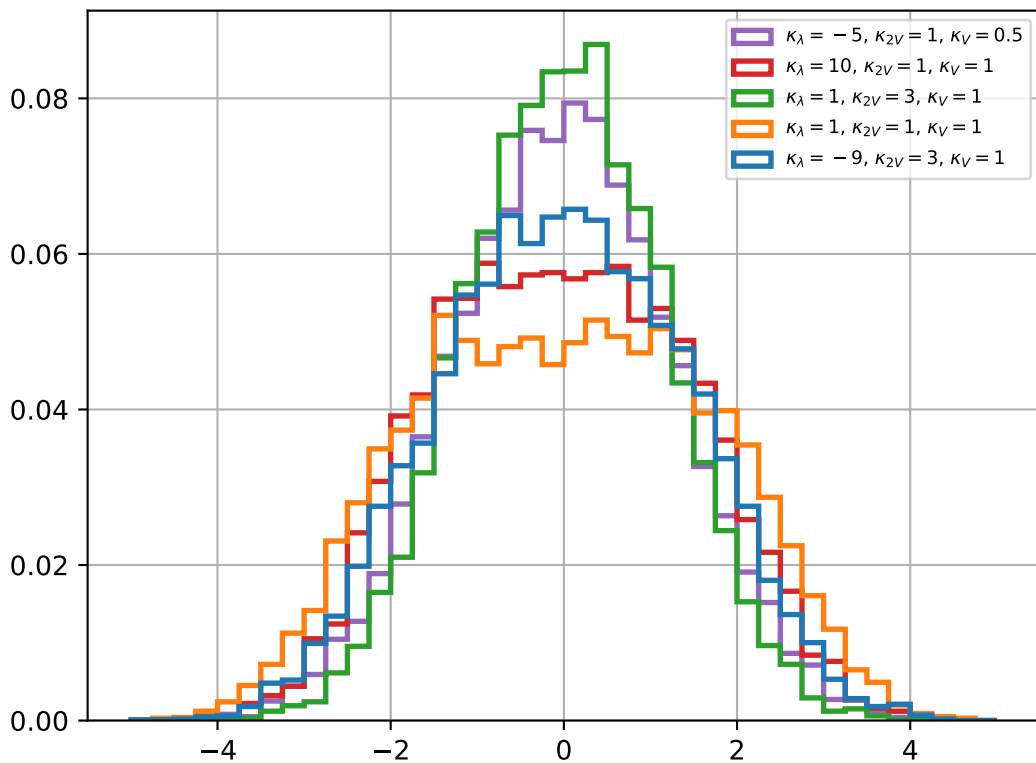
## worker run-time summary

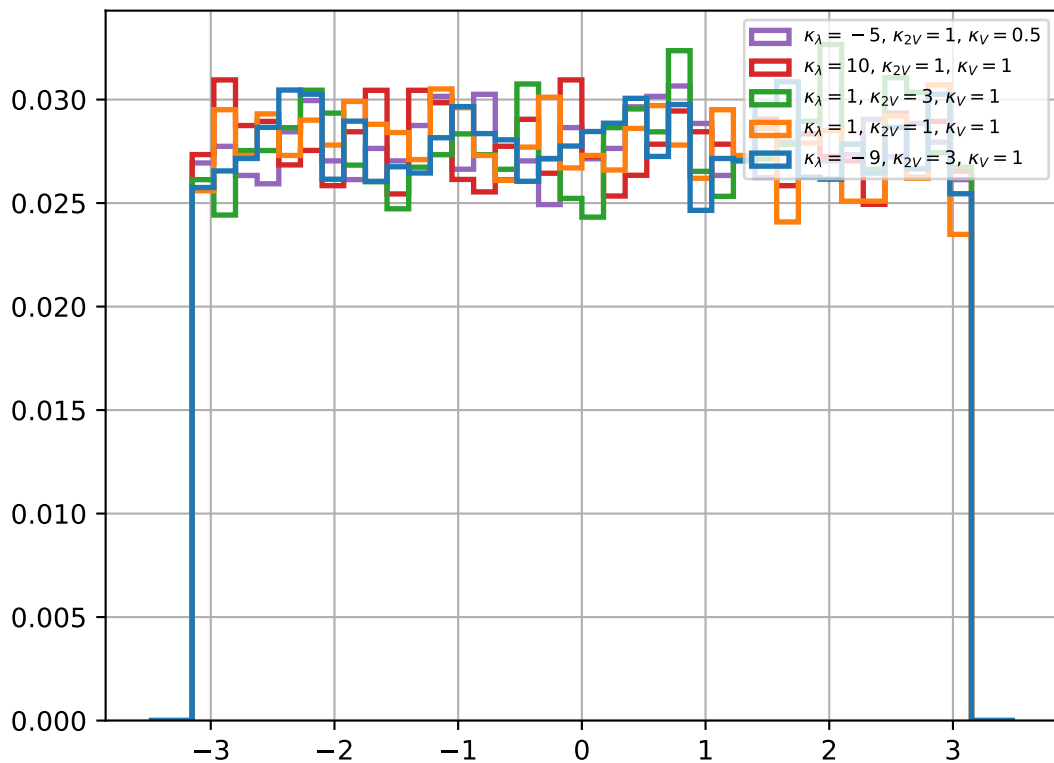


$p_T(H1)$

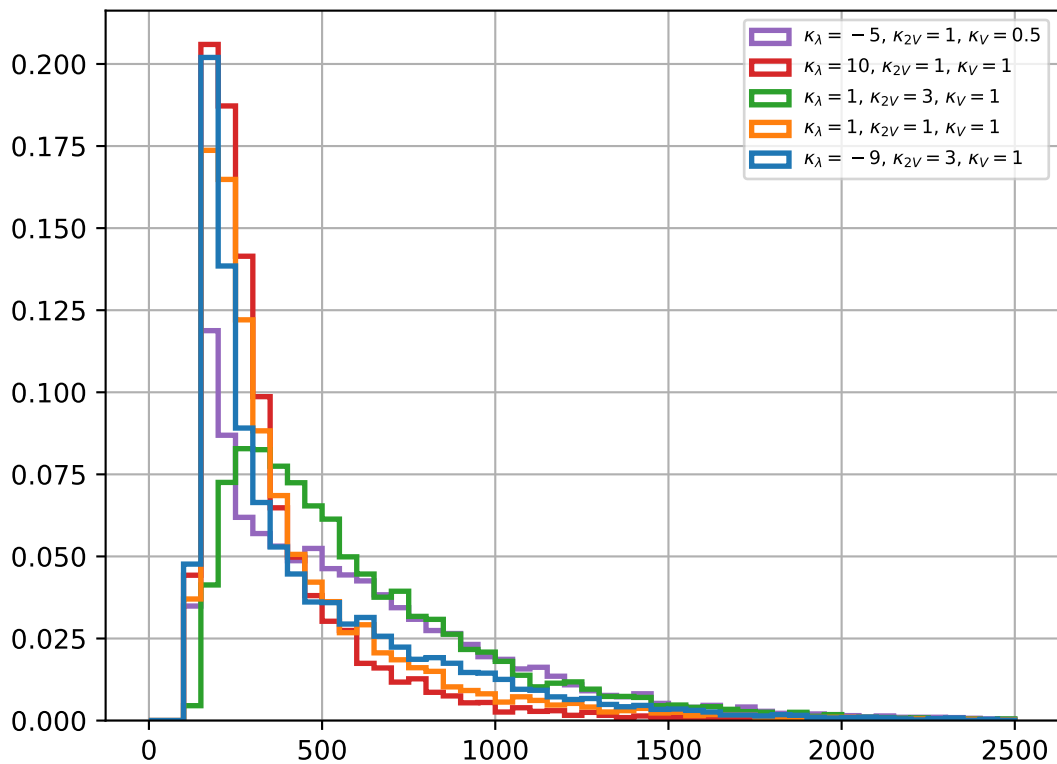


$\eta(H1)$

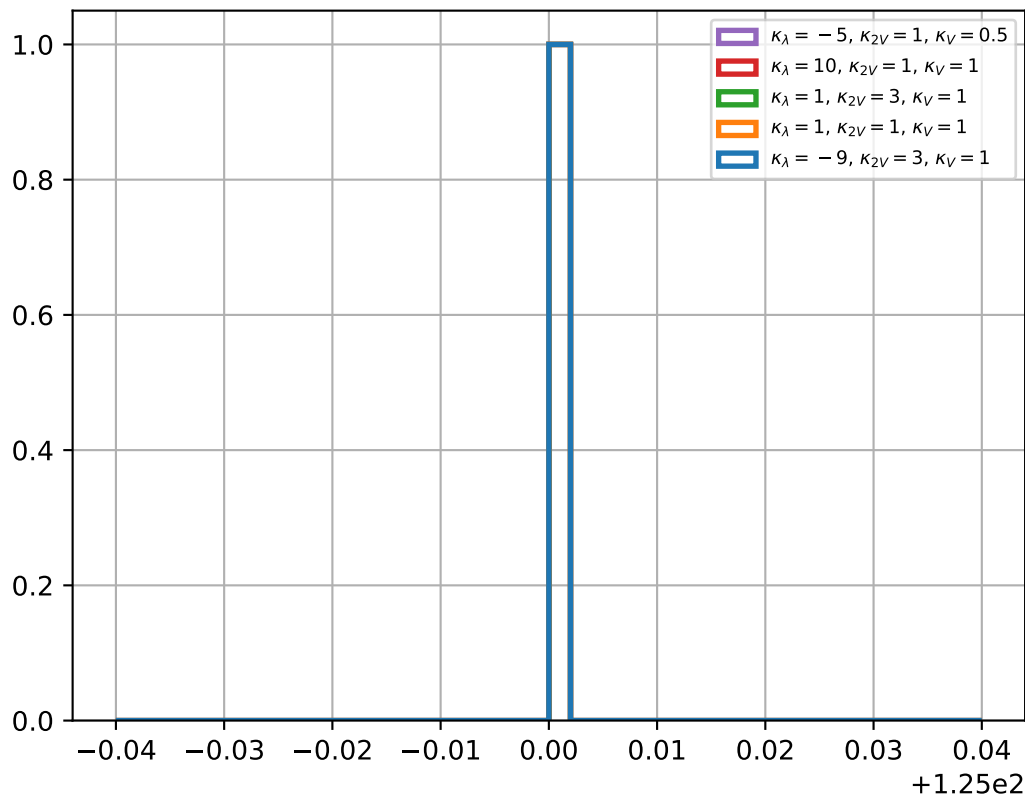


$\phi(H1)$ 


E(H1)

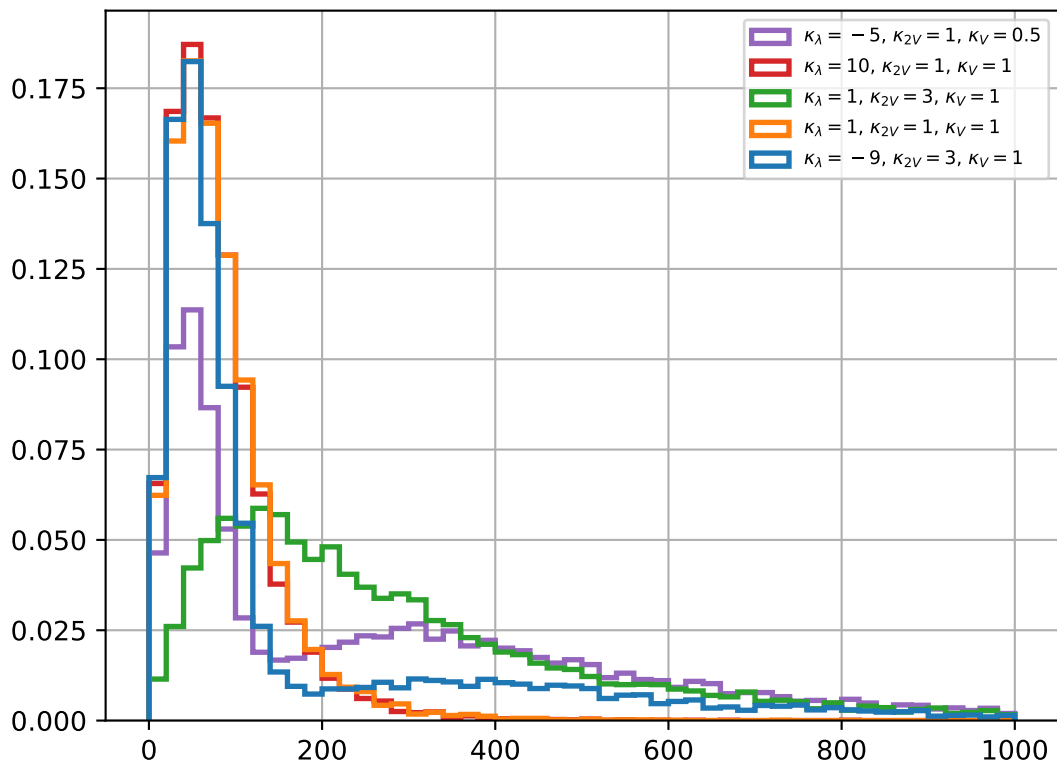


$m(H1)$

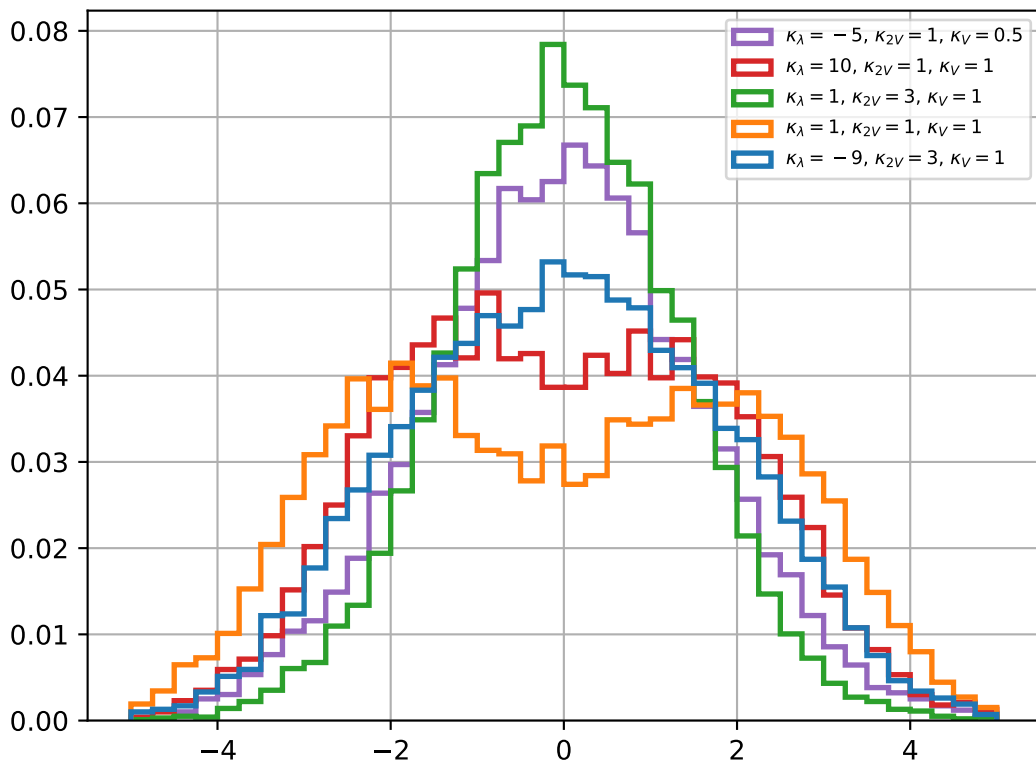




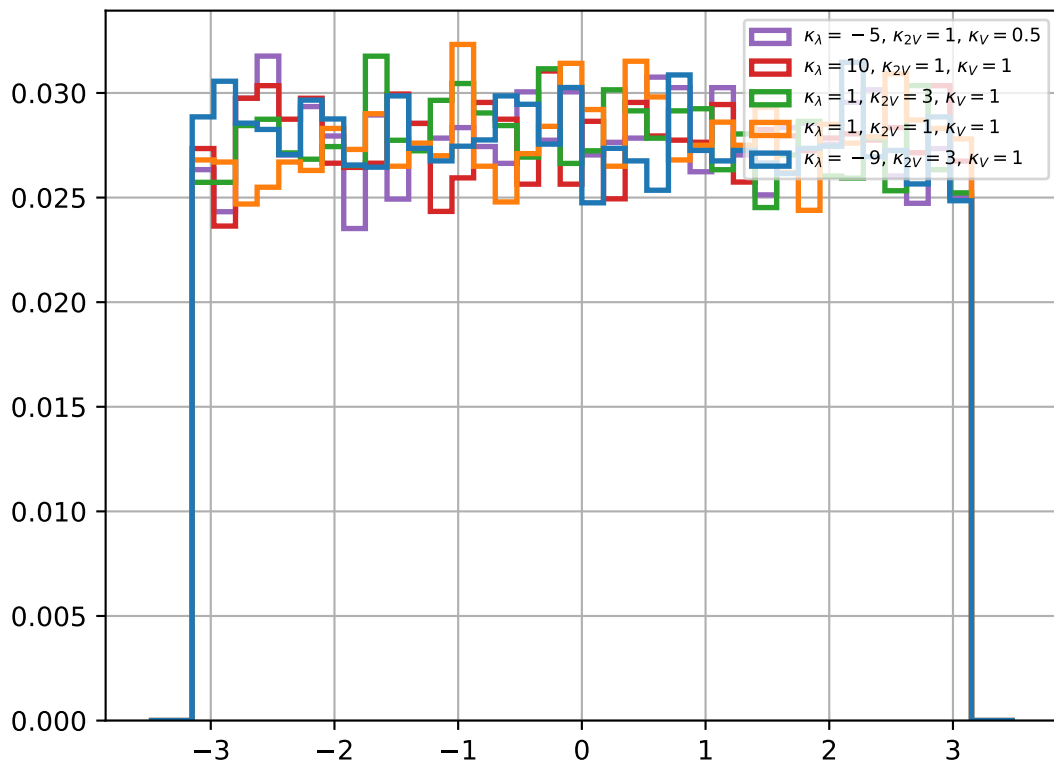
$p_T(H2)$



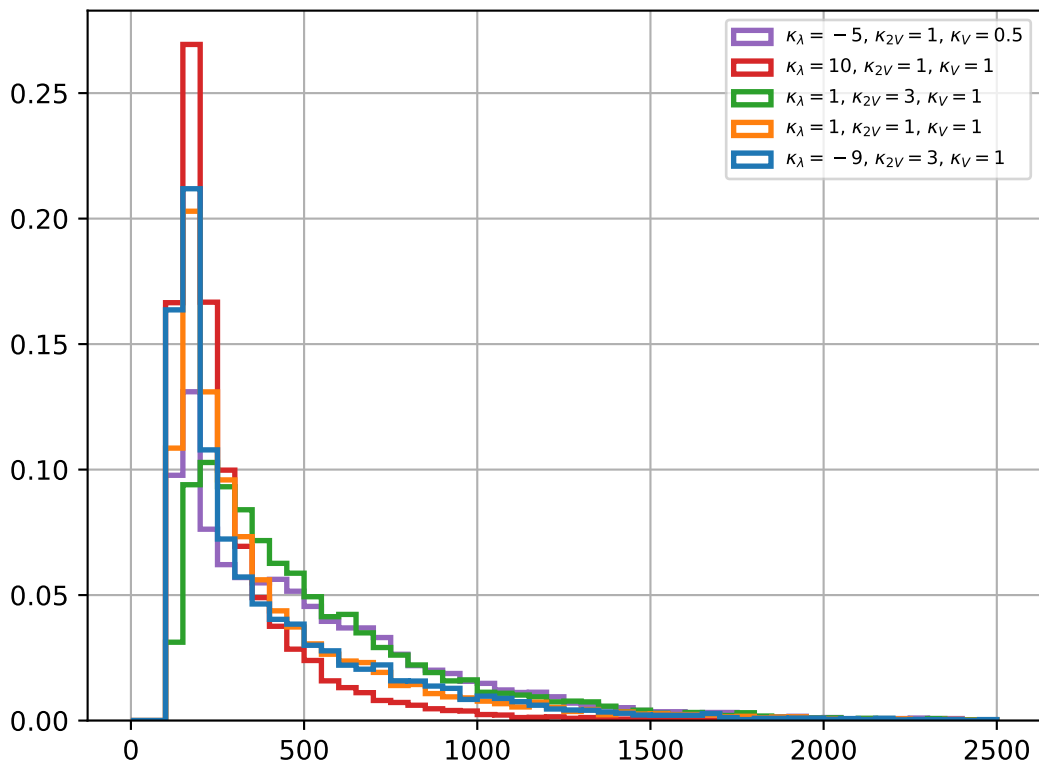
$\eta(H2)$



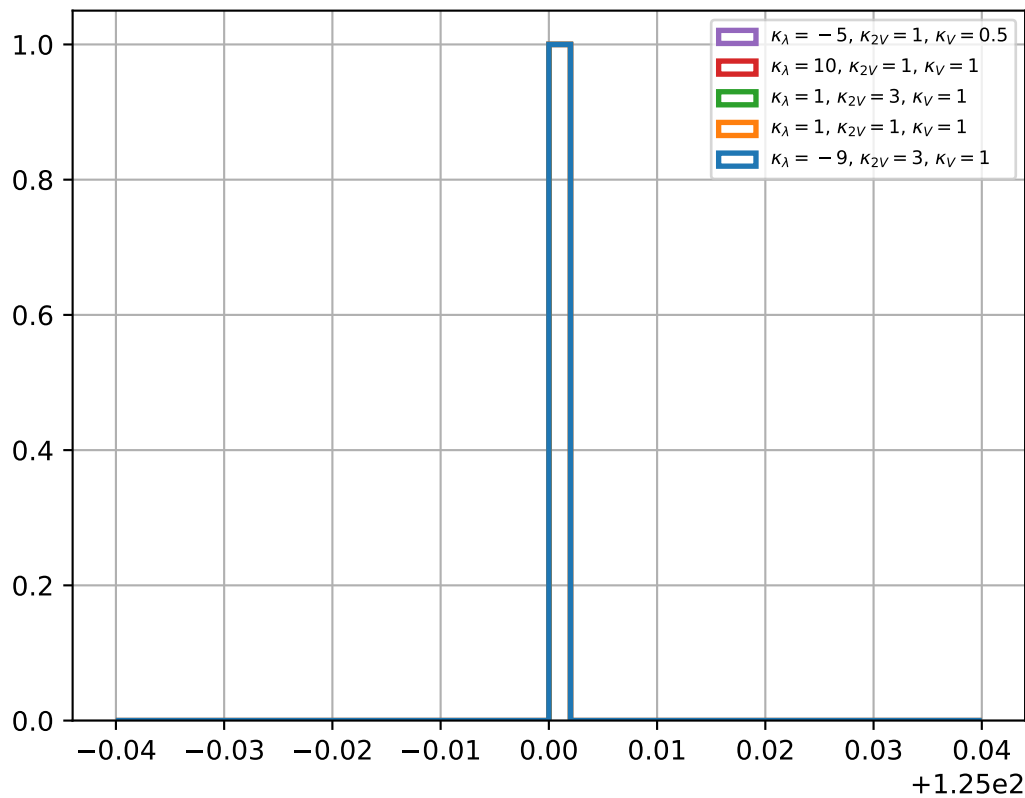
$$\phi(H2)$$



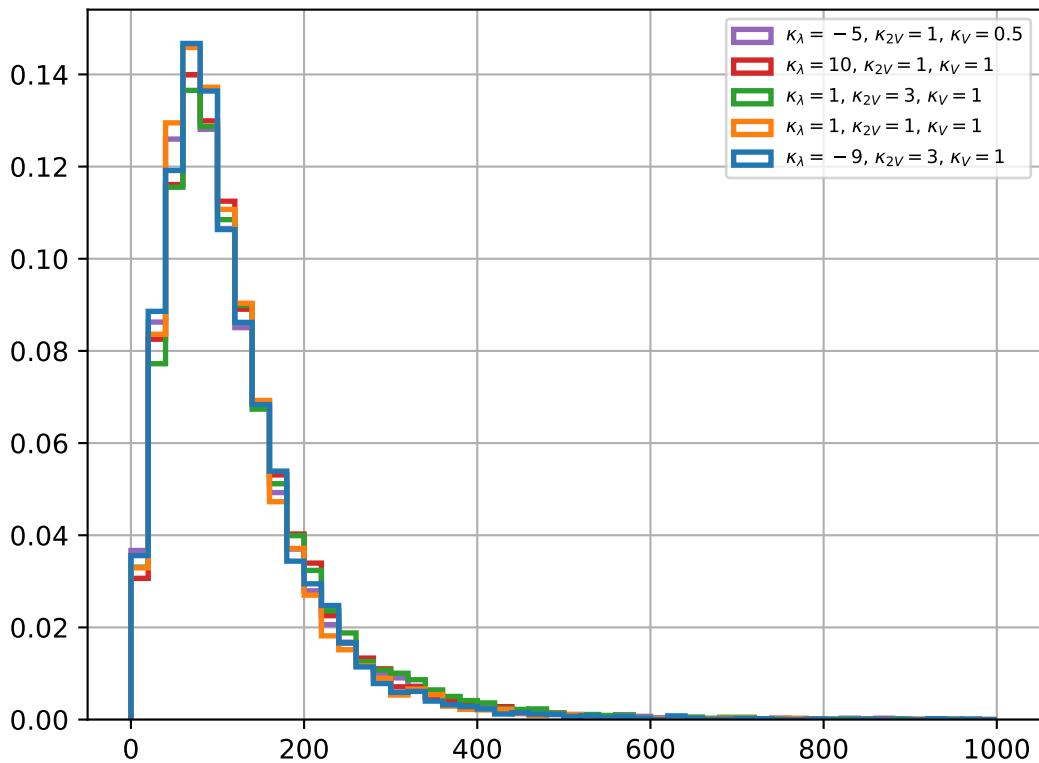
E(H2)



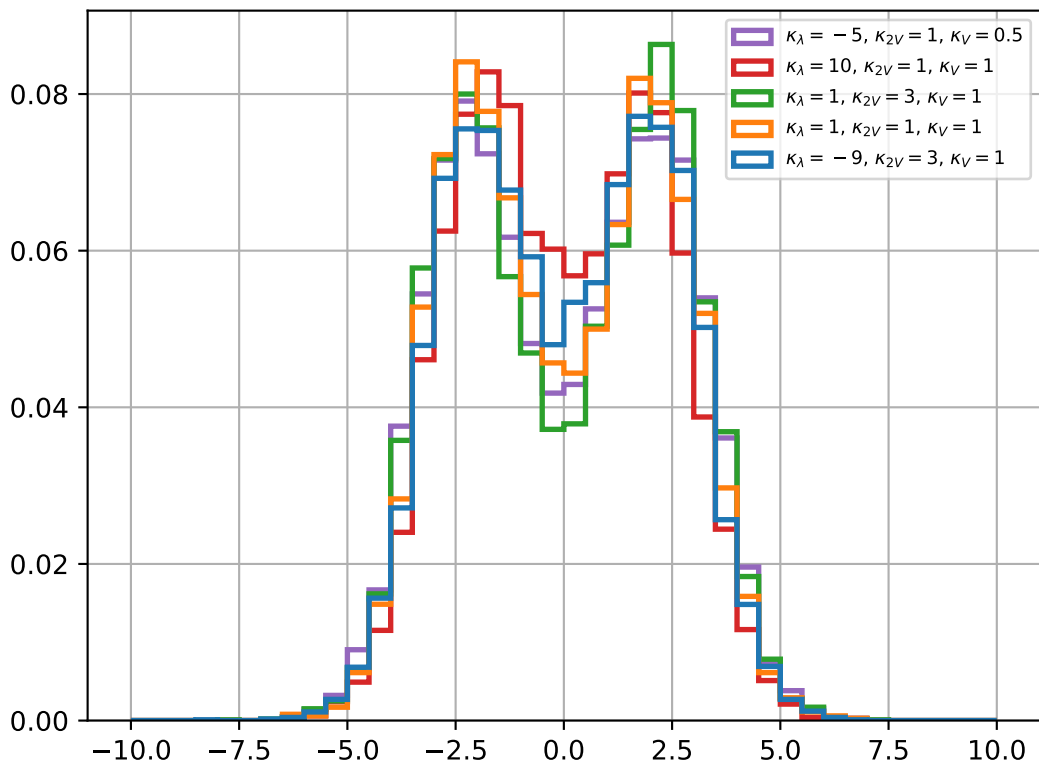
$m(H_2)$



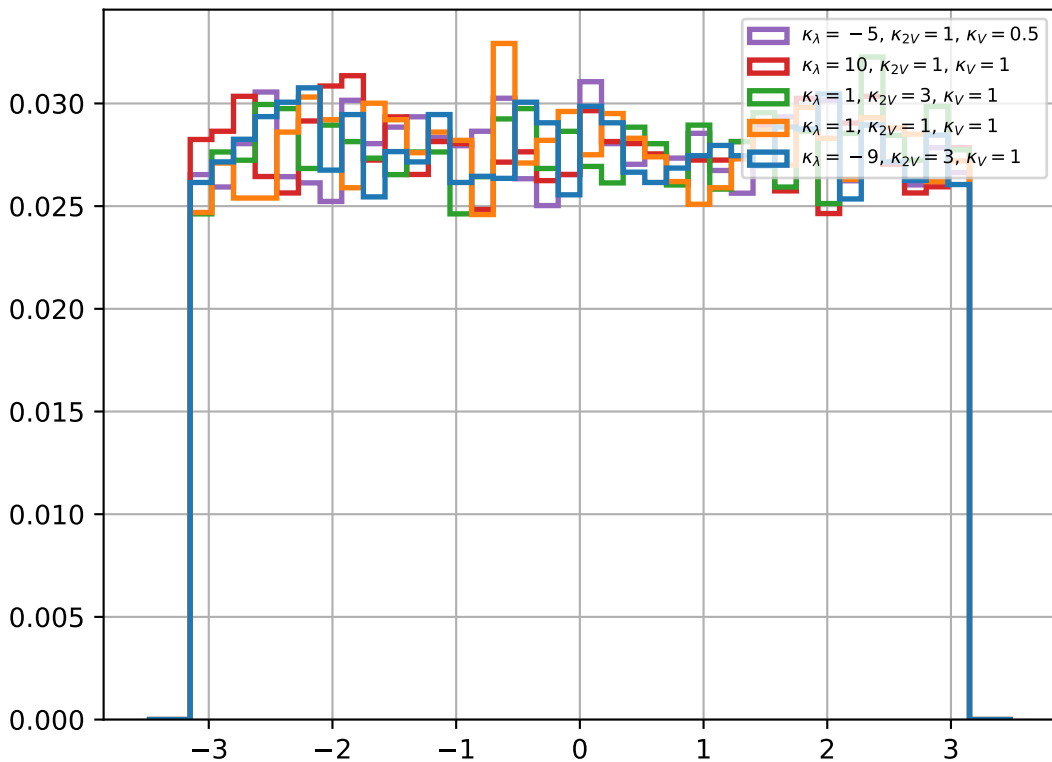
$p_T(HH)$



$\eta(HH)$

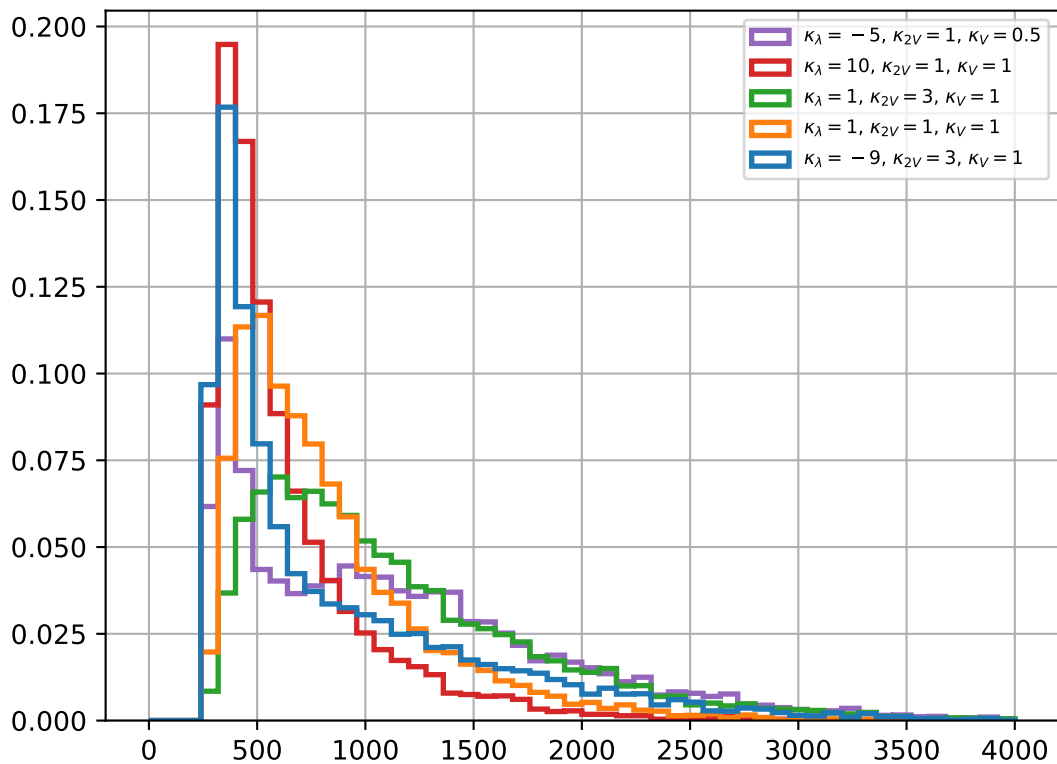


$$\phi(HH)$$

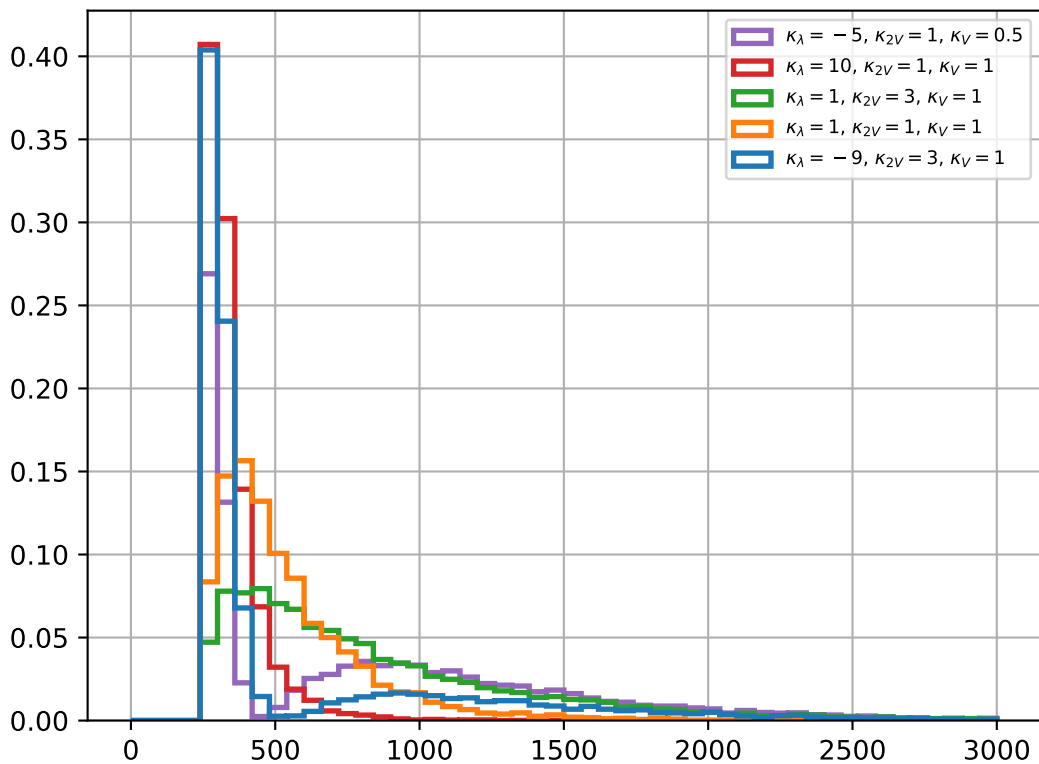




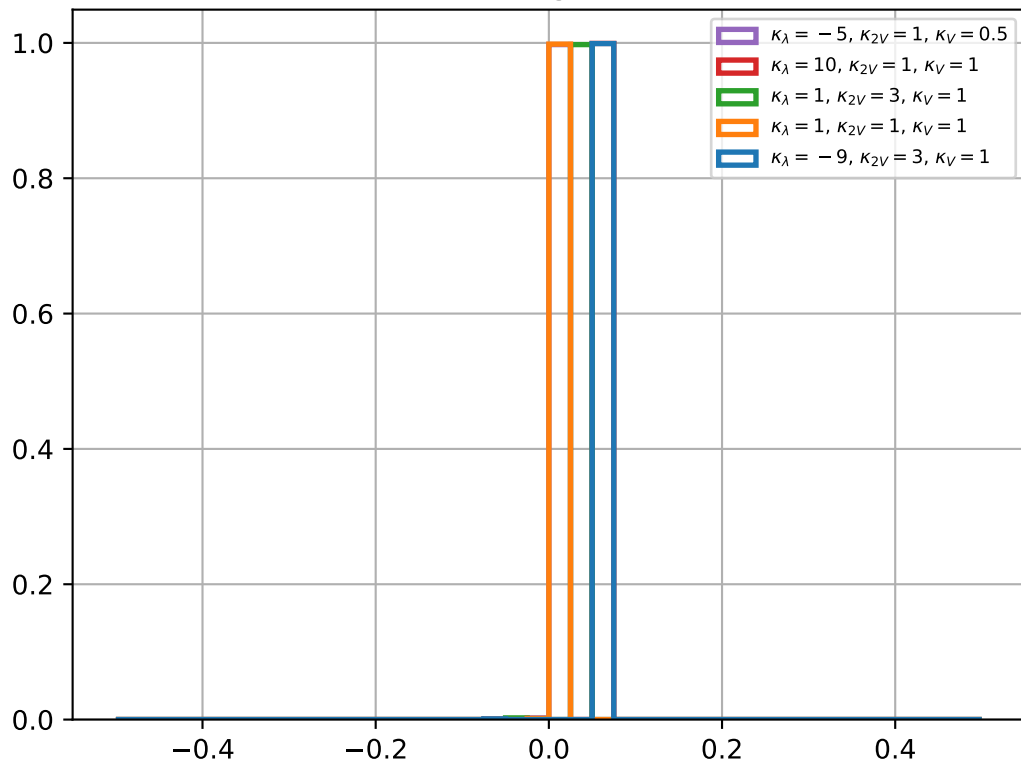
E(HH)



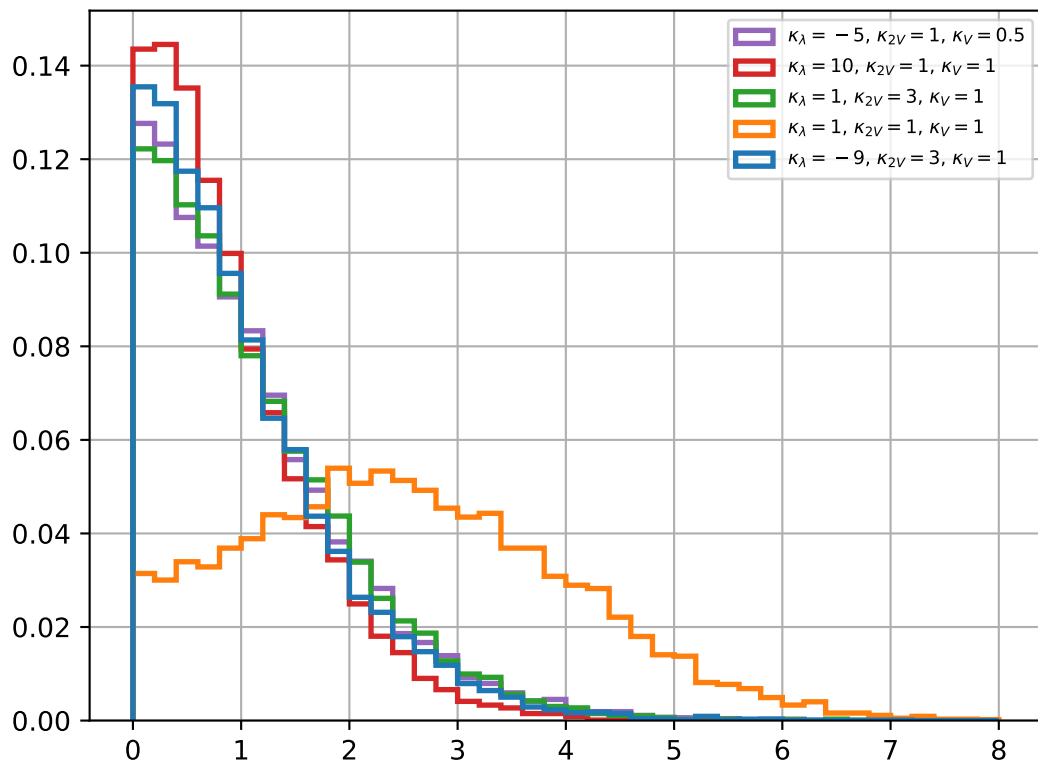
$m(HH)$



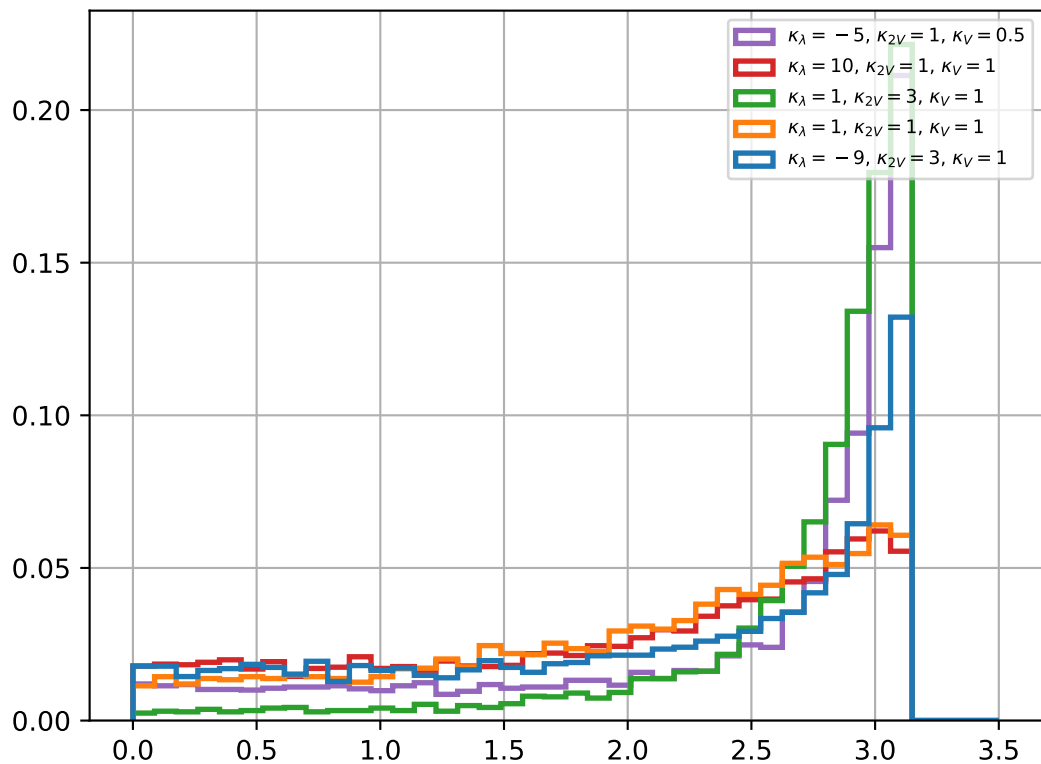
weight



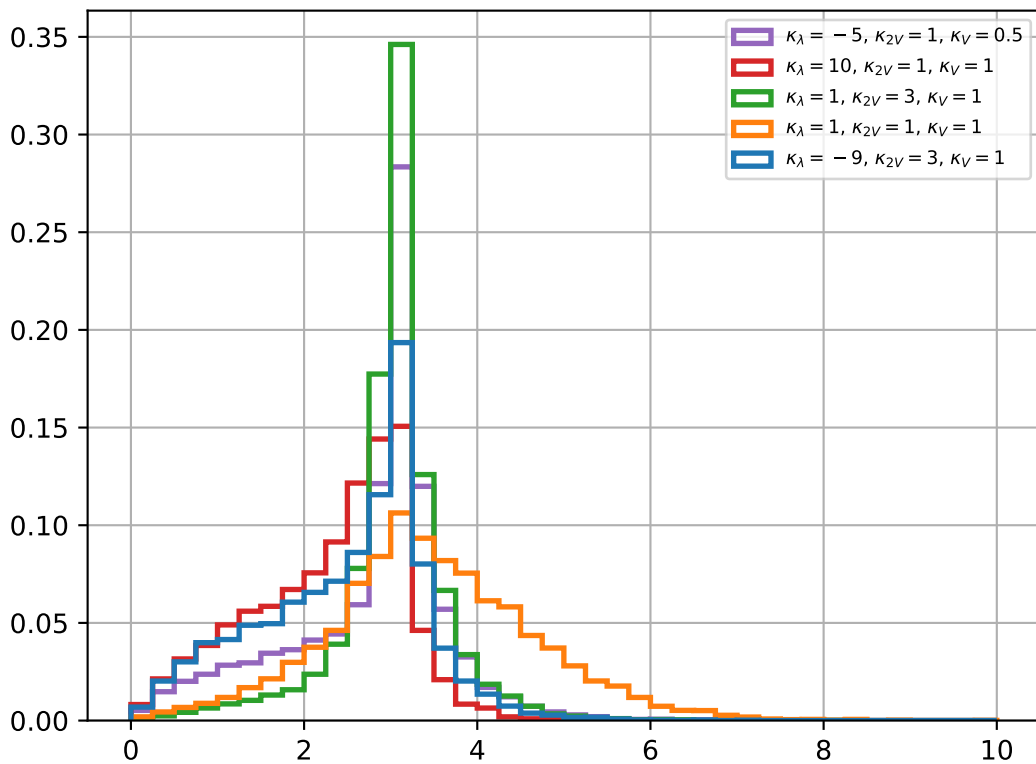
$$\Delta\eta(H, H)$$



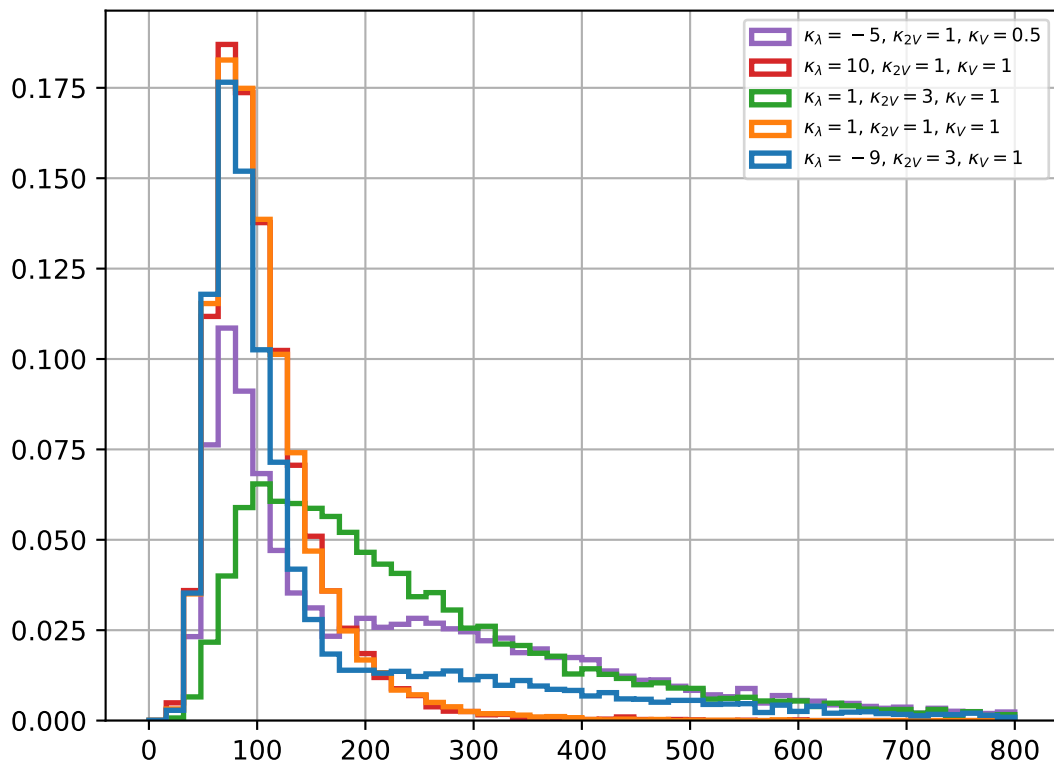
$$\Delta\phi(H, H)$$



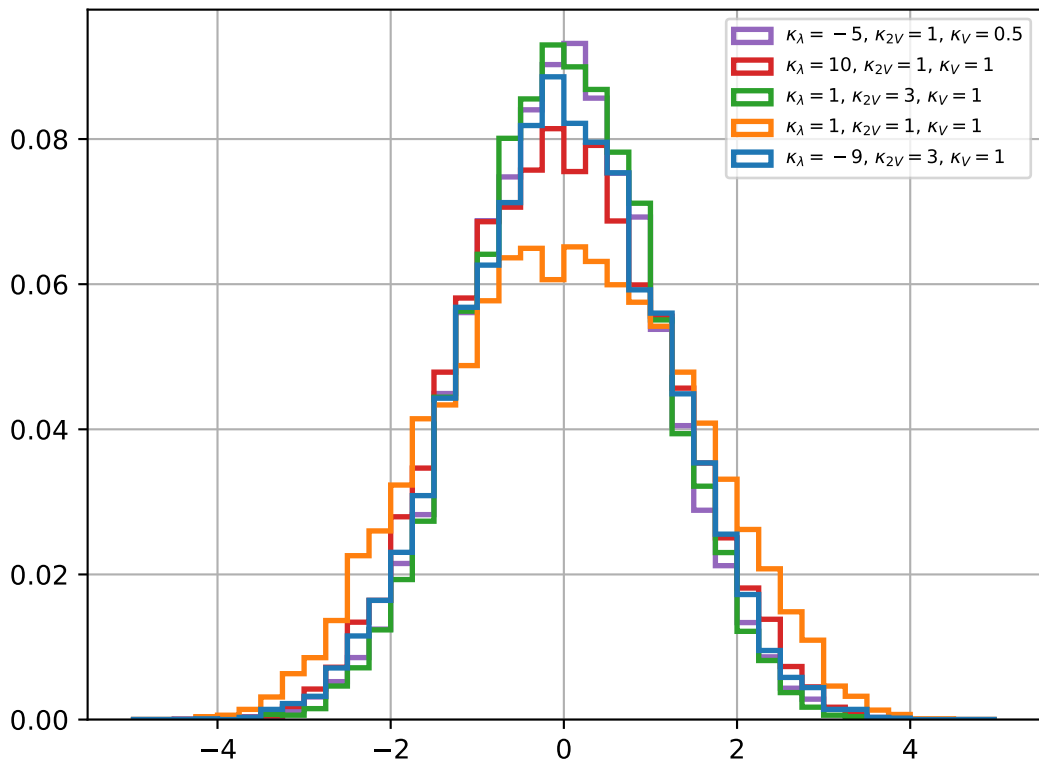
$$\Delta R(H, H)$$



$p_T(bquark1)$

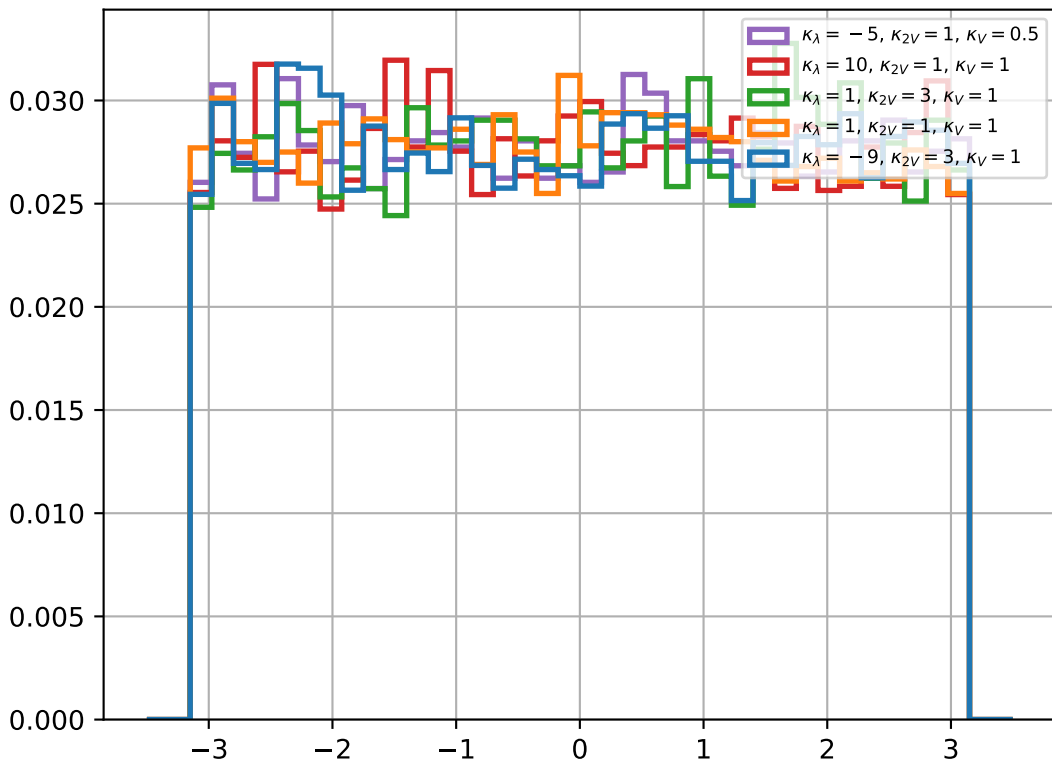


$\eta(b\text{quark1})$

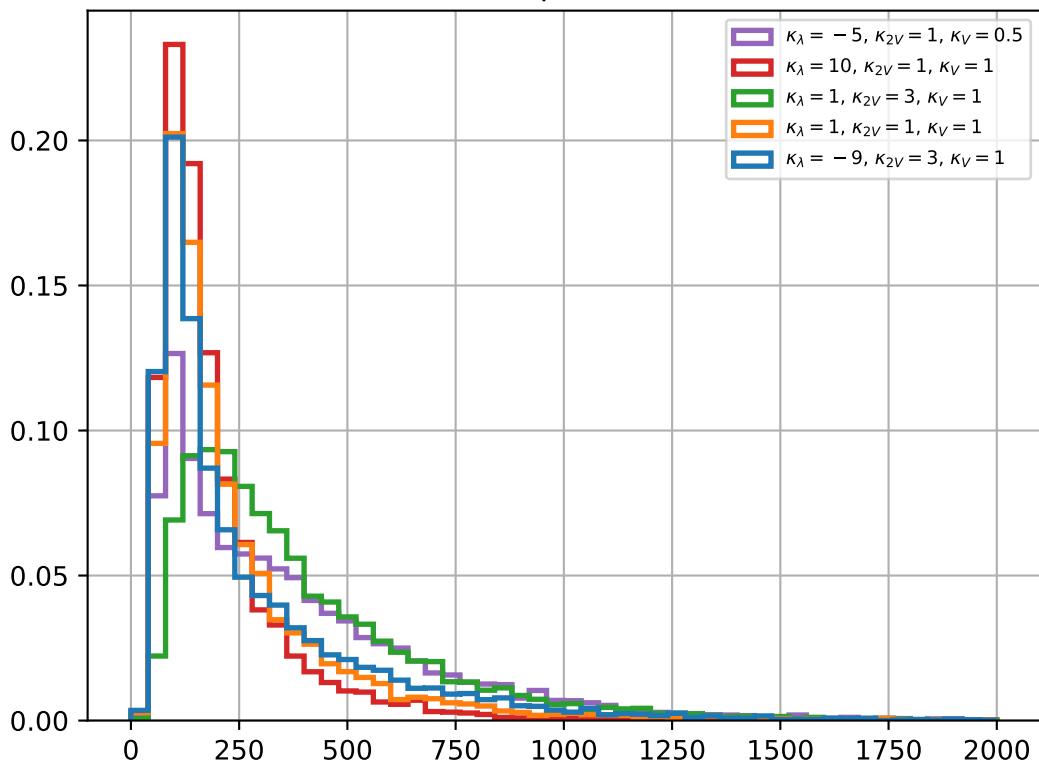




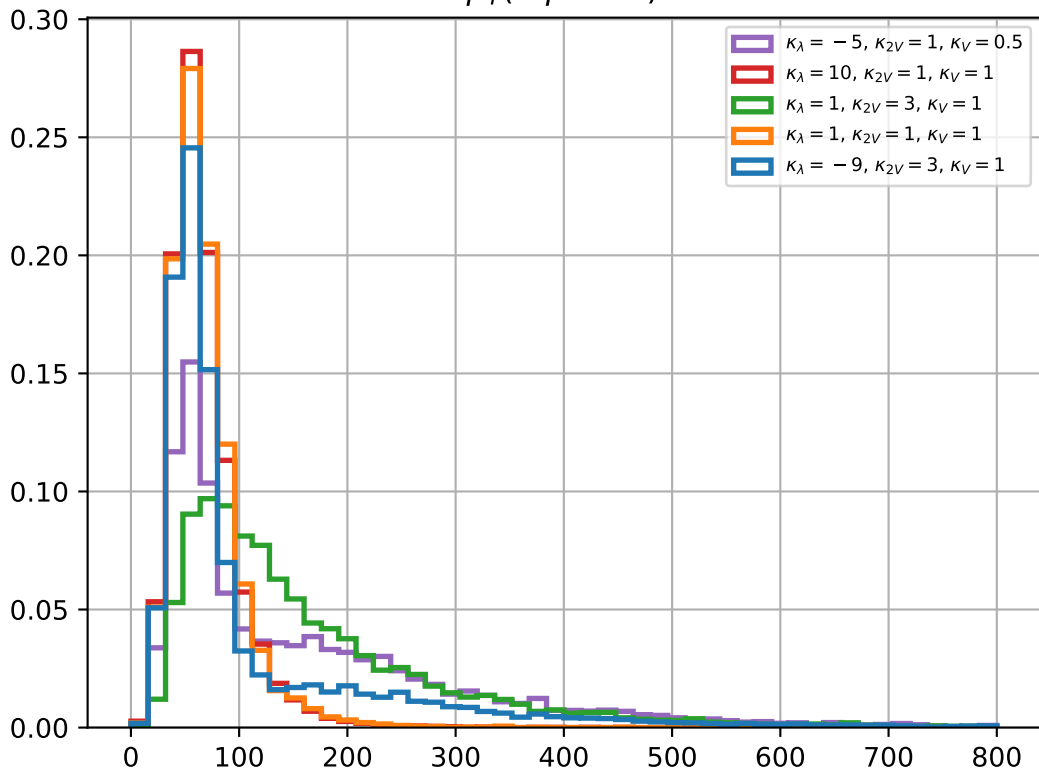
$\phi(b\text{quark1})$



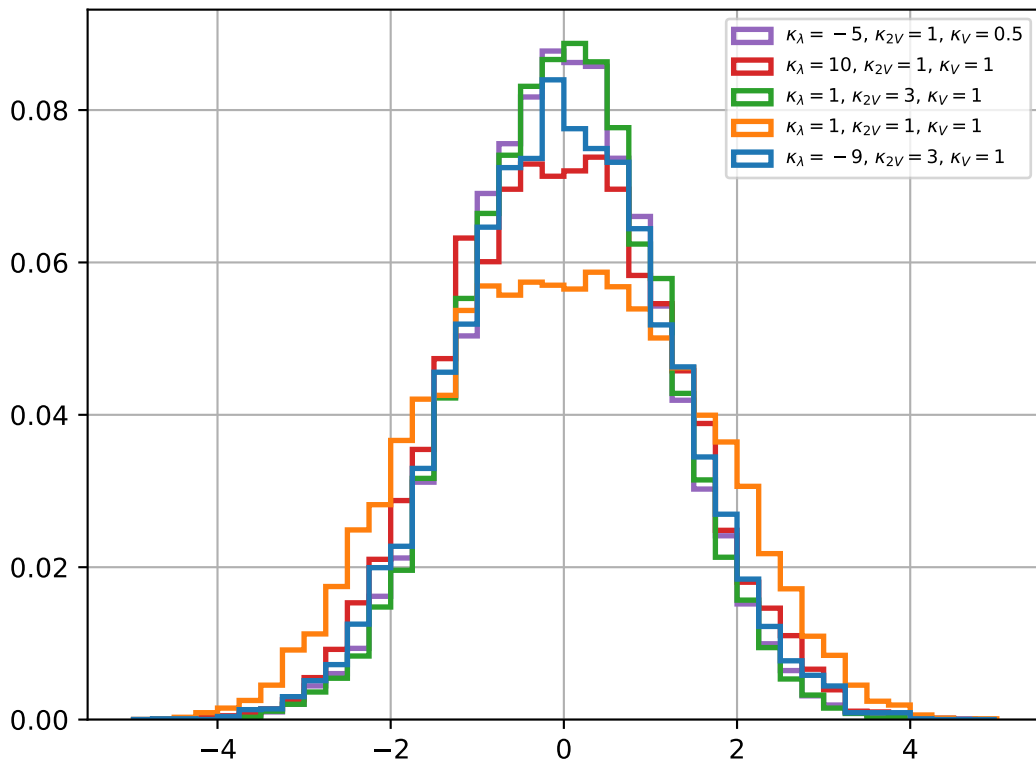
E(b quark 1)



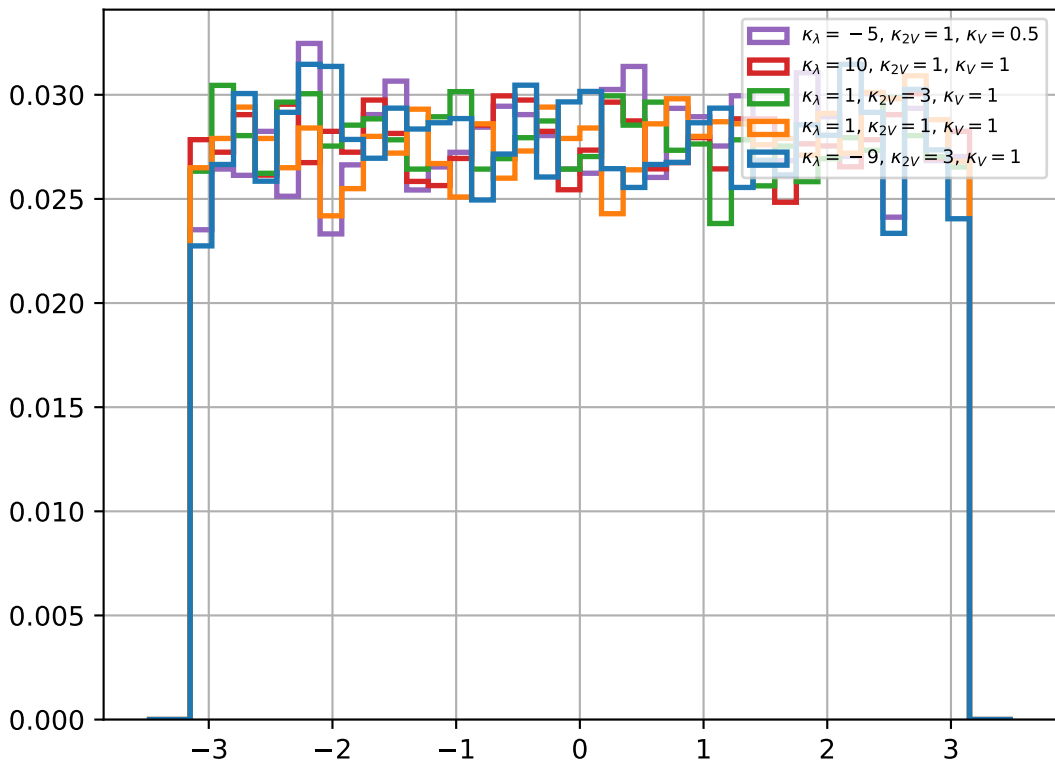
$p_T(b\text{quark2})$



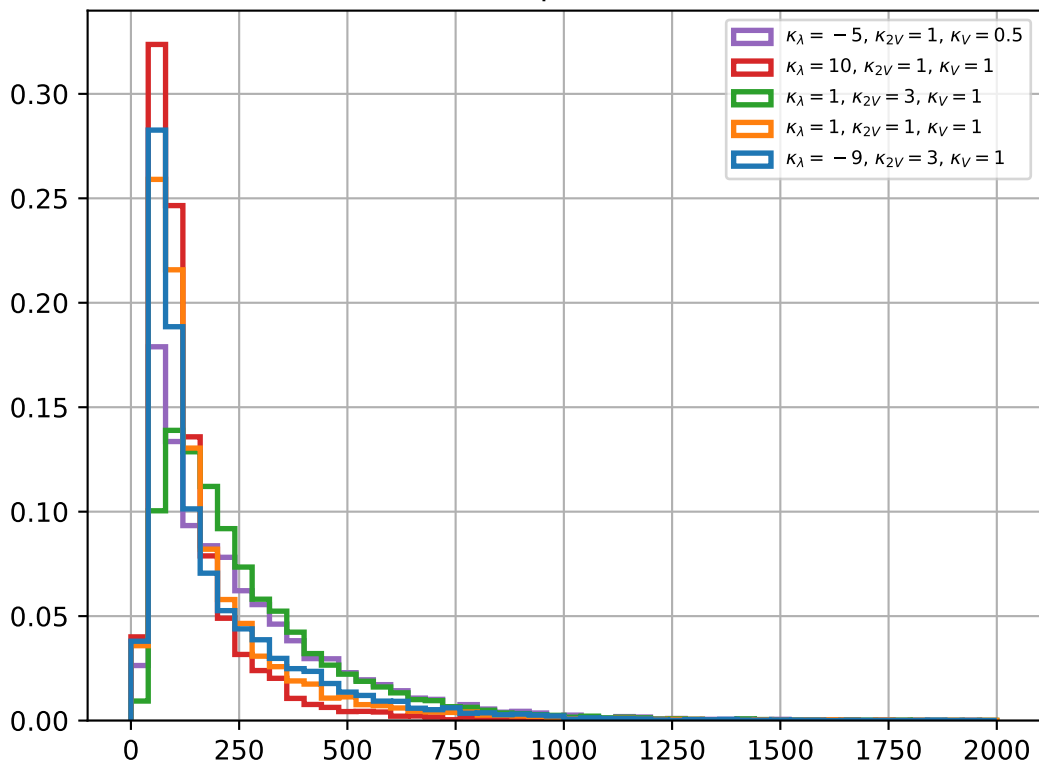
$\eta(b\text{quark2})$



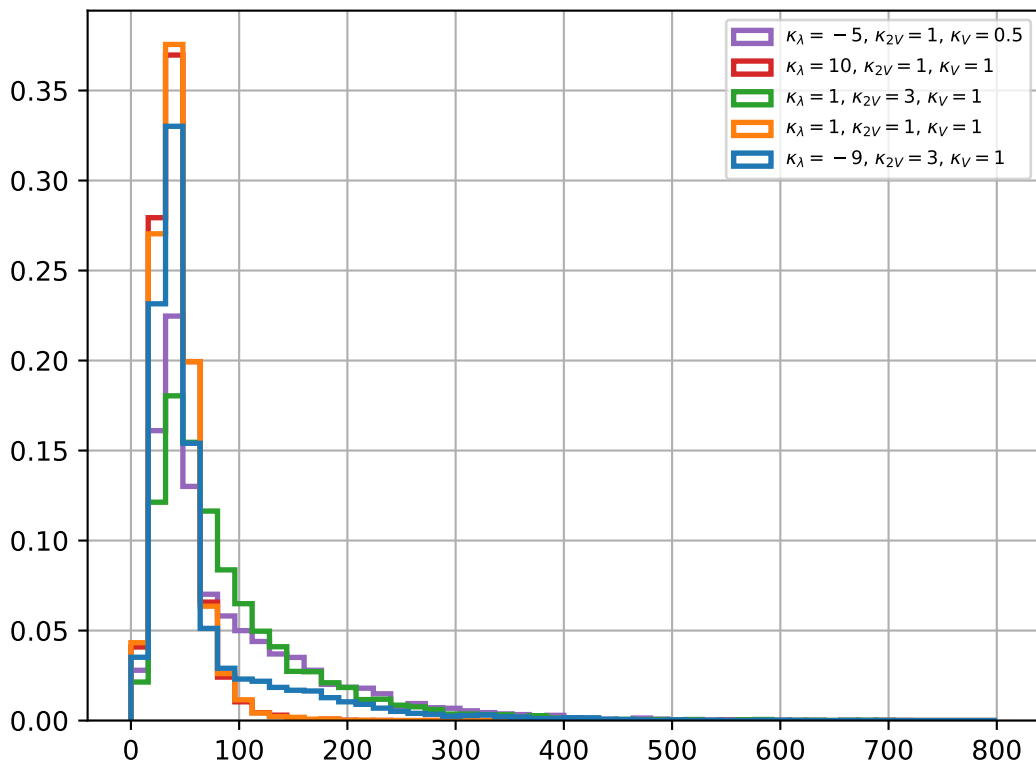
$\phi(b\text{quark2})$



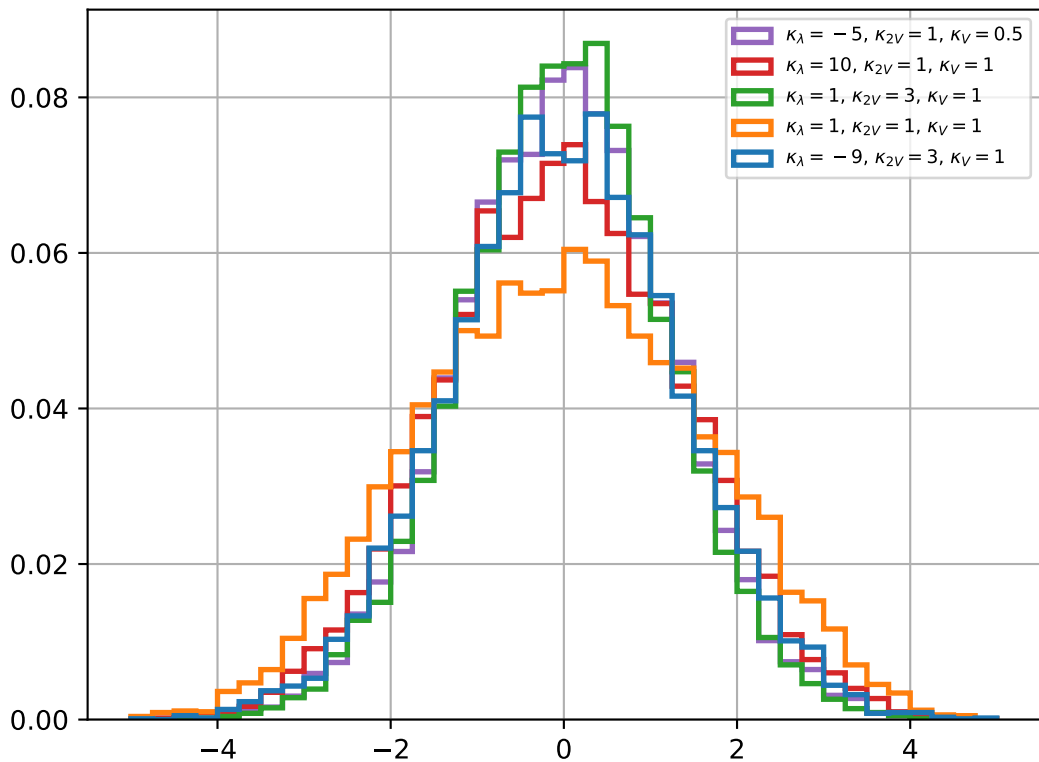
E(b quark 2)



$p_T(b\text{quark3})$

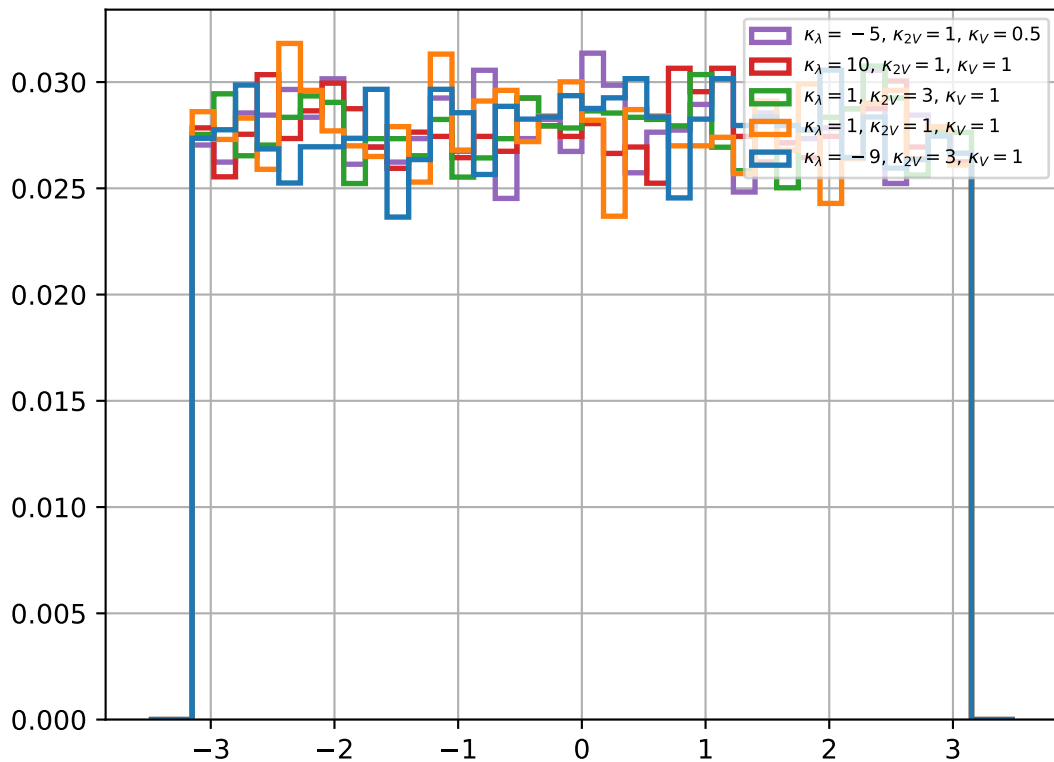


$\eta(b\text{quark3})$

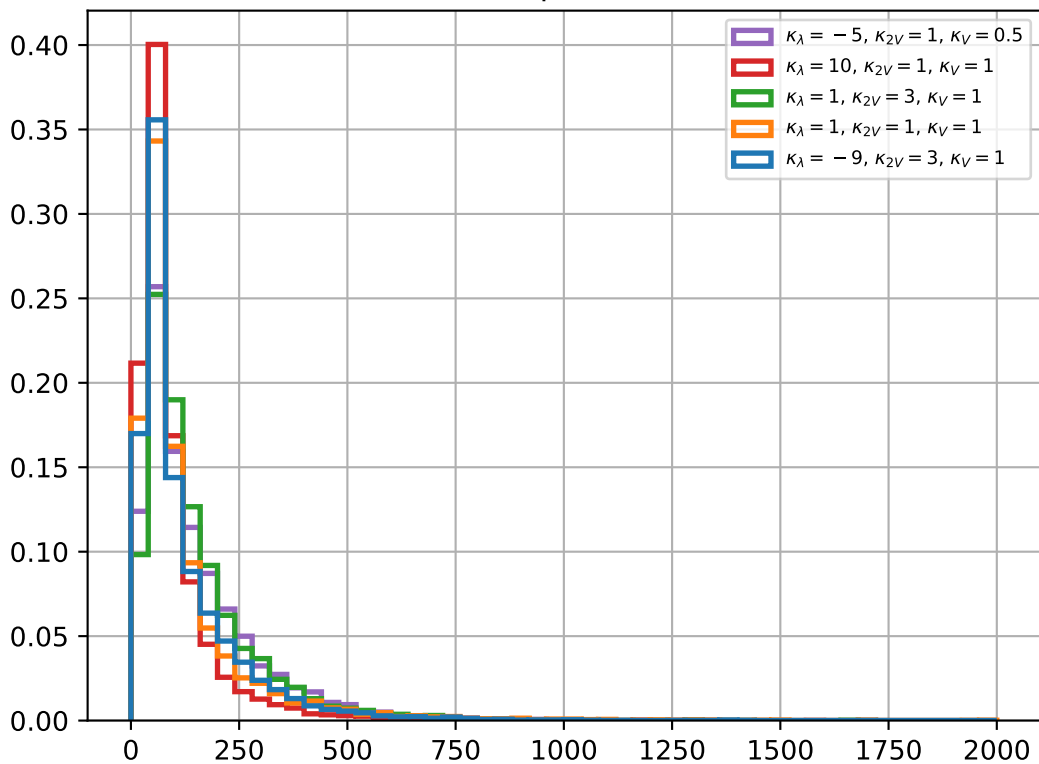




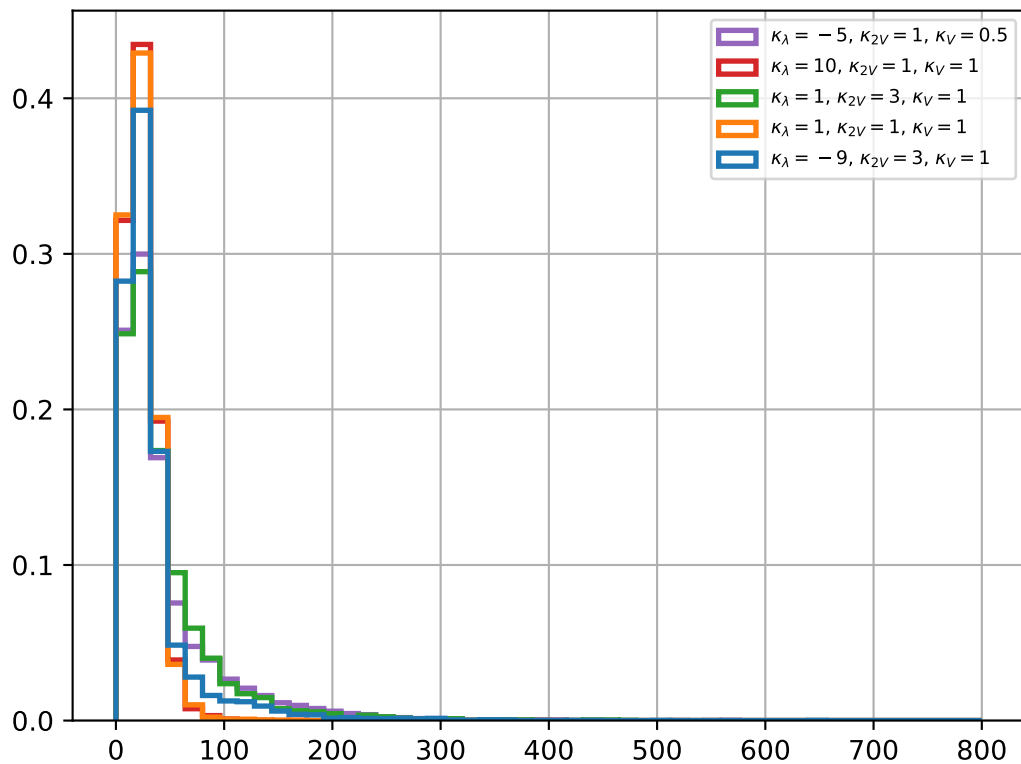
$\phi(b\text{quark3})$



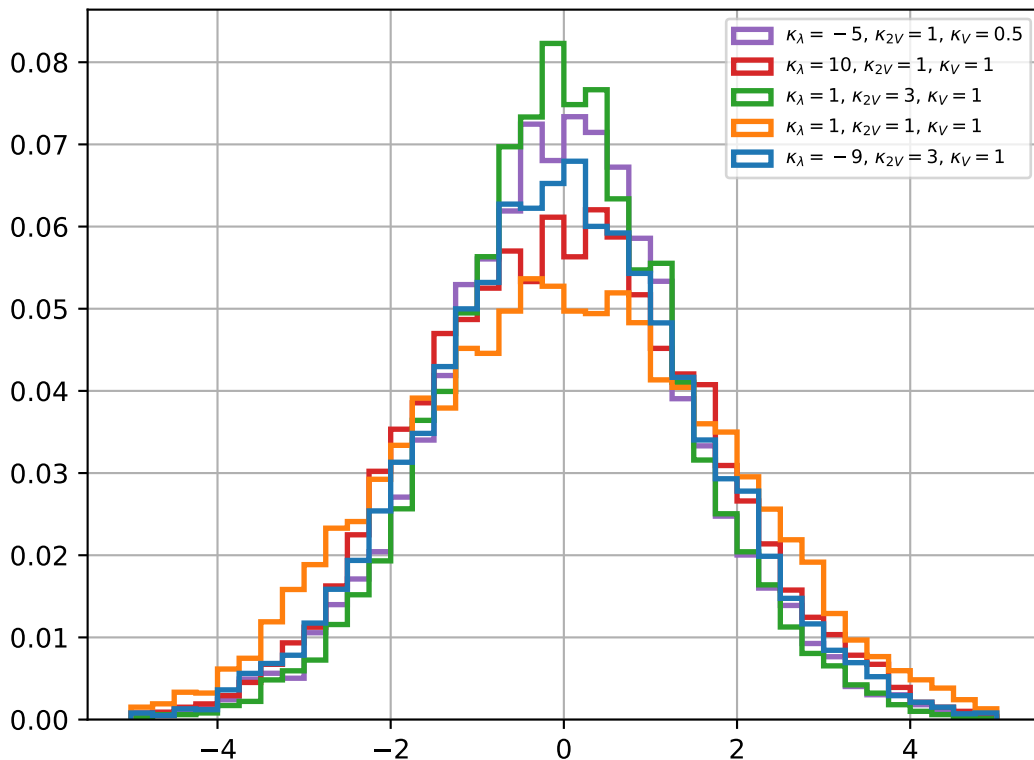
E(b quark 3)



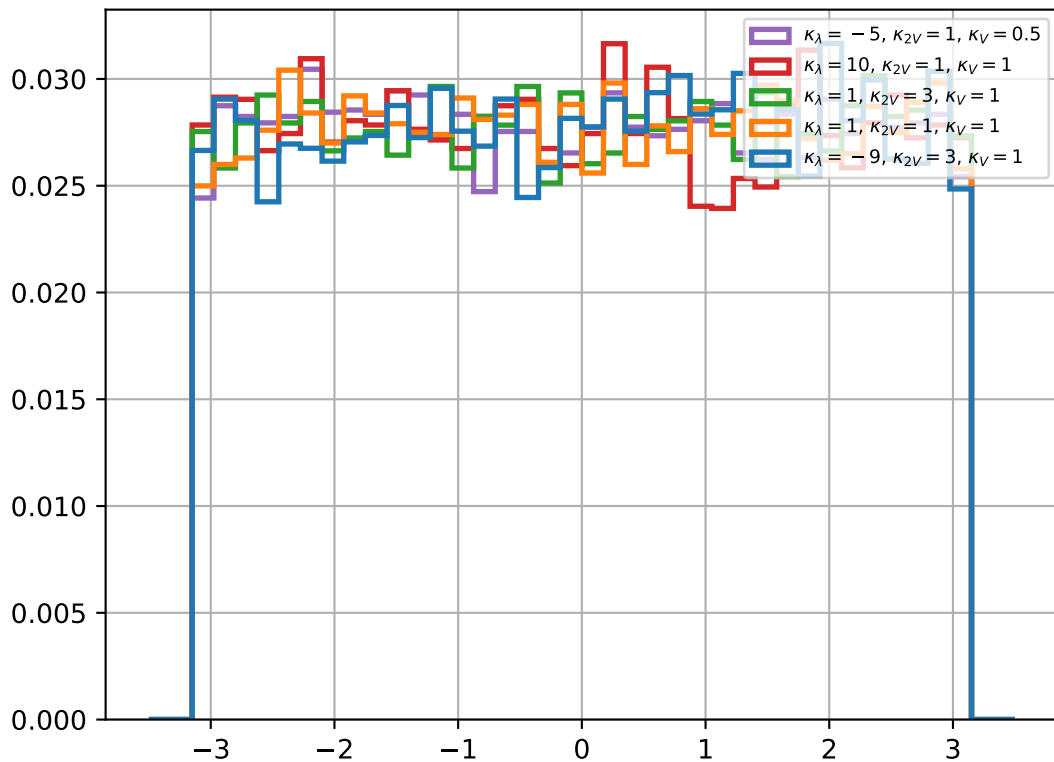
$p_T(bquark4)$



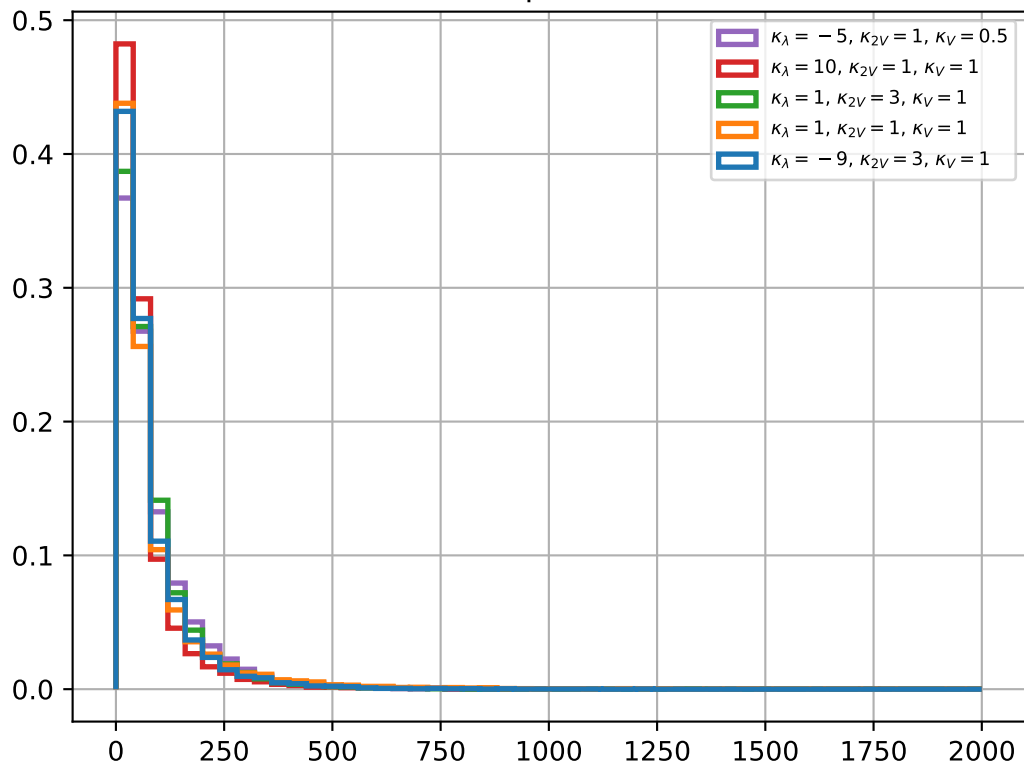
$\eta(b\text{quark4})$



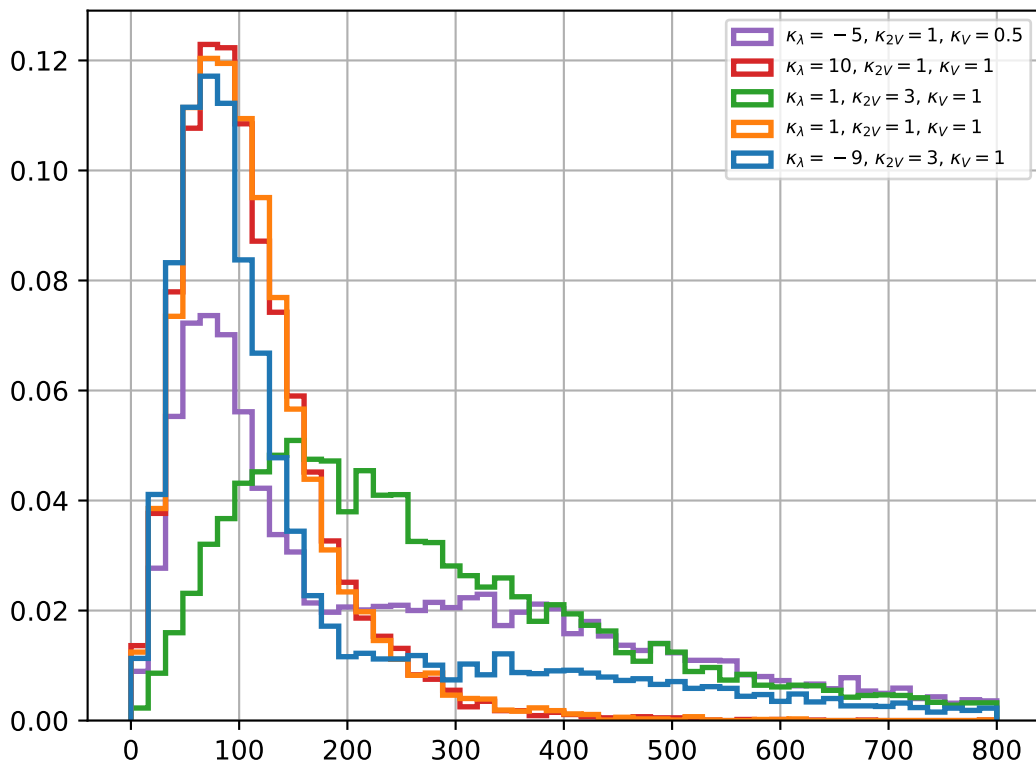
$\phi(b\text{quark4})$



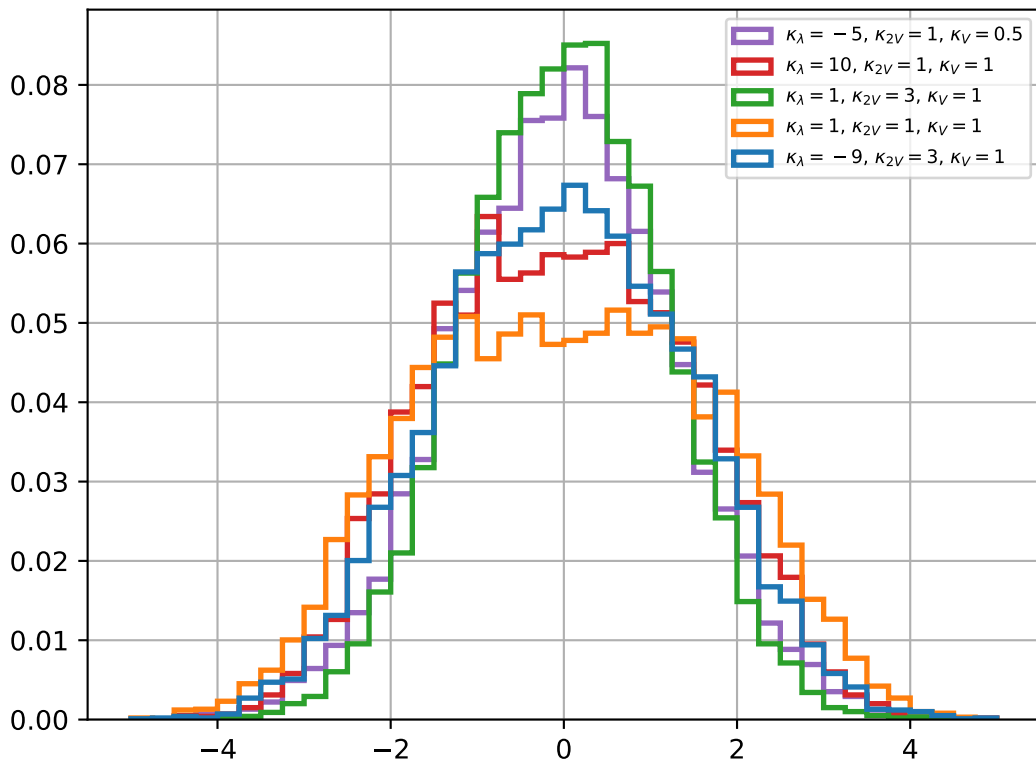
E(b quark 4)



$p_T(bb\text{from}H1)$

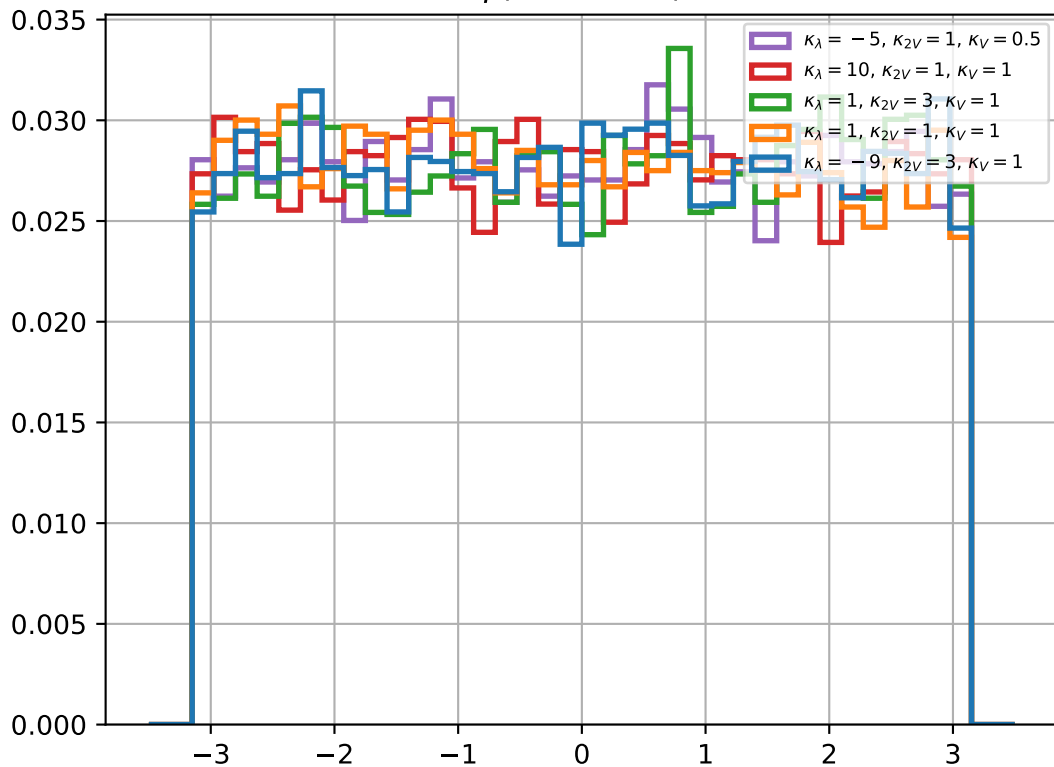


$\eta(bb\text{from}H1)$

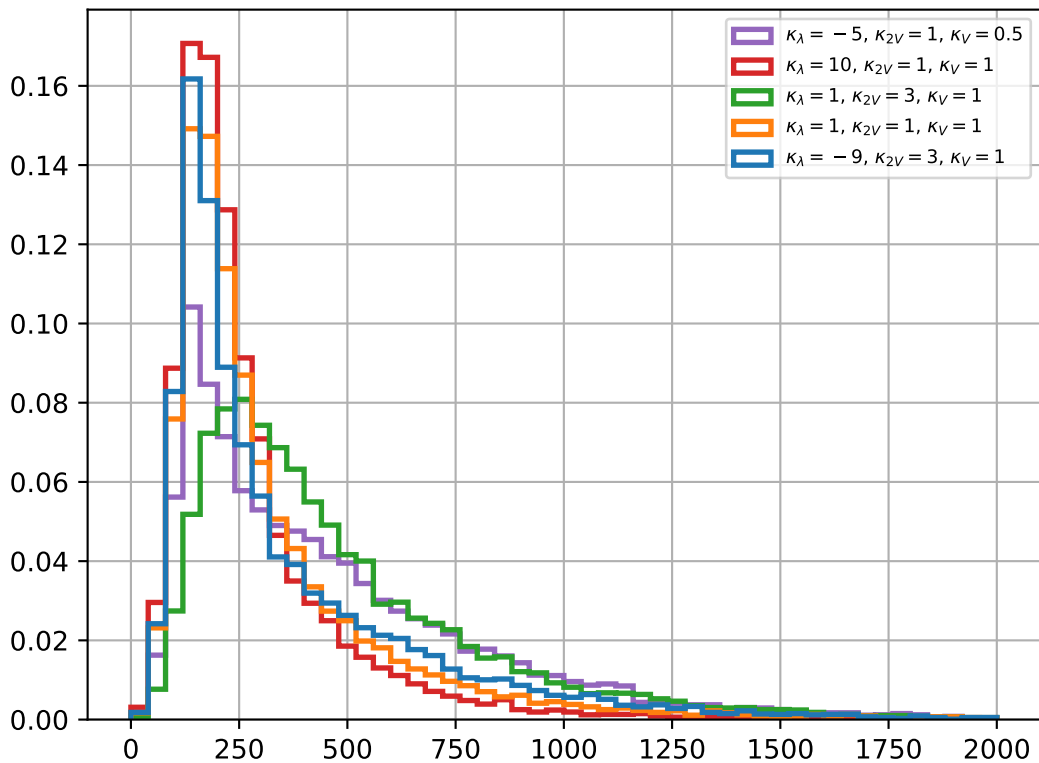




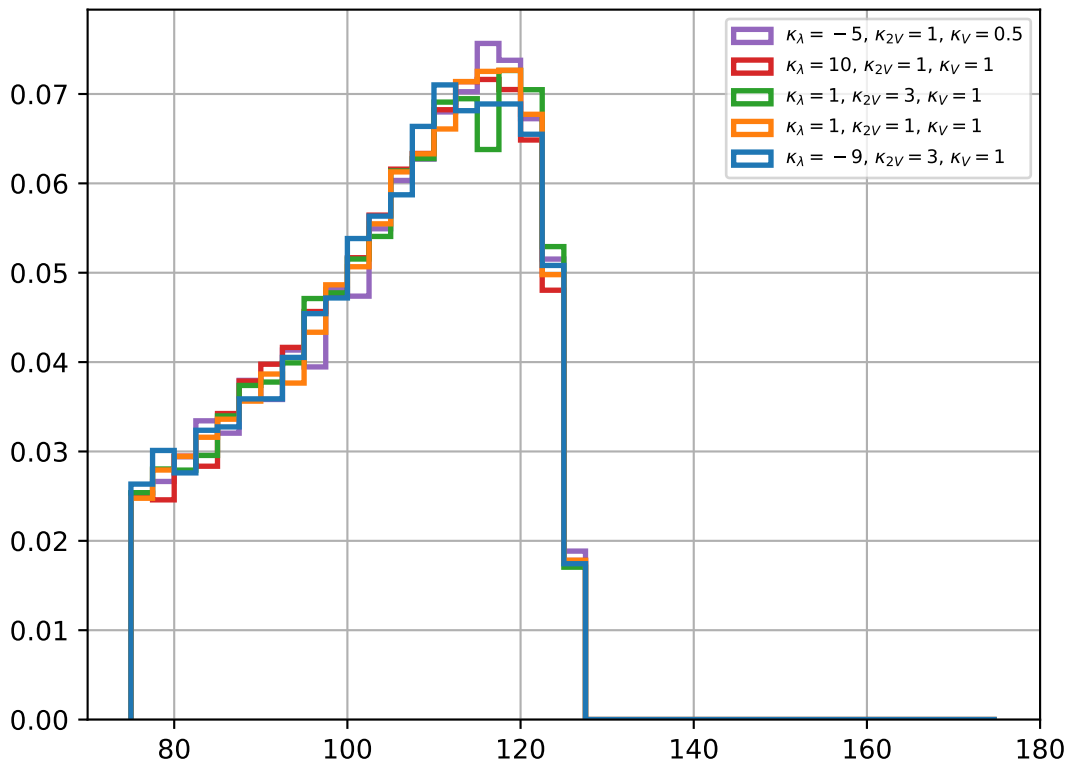
$\phi(bbfromH1)$



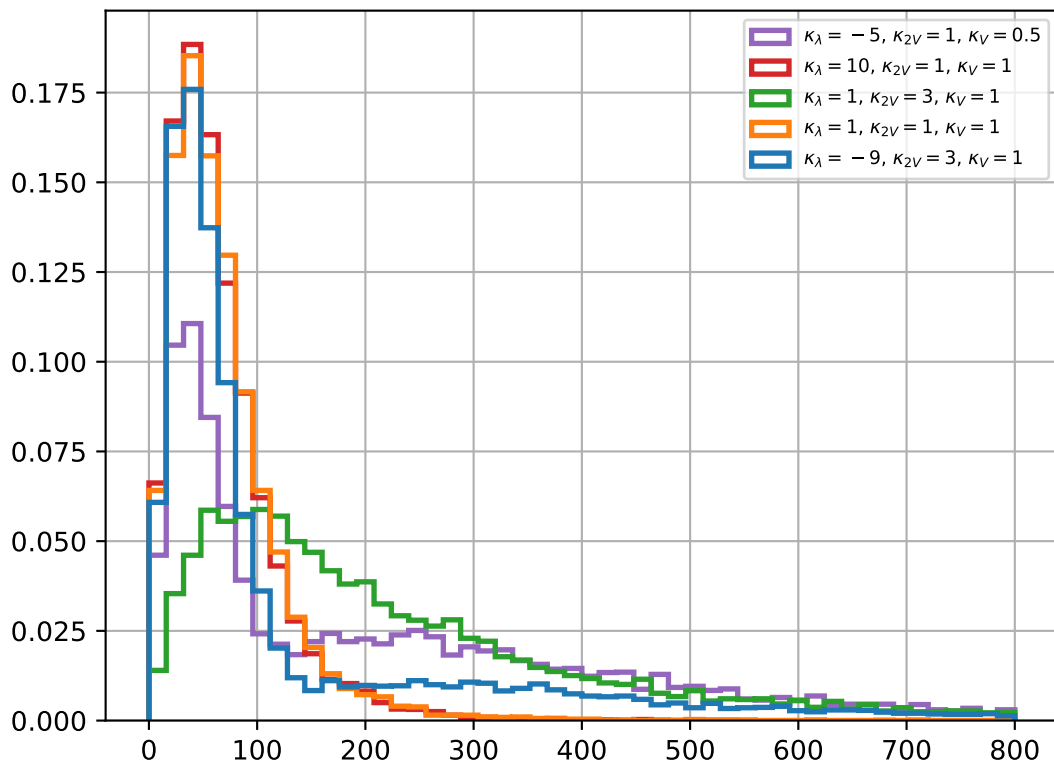
E(bb from H1)



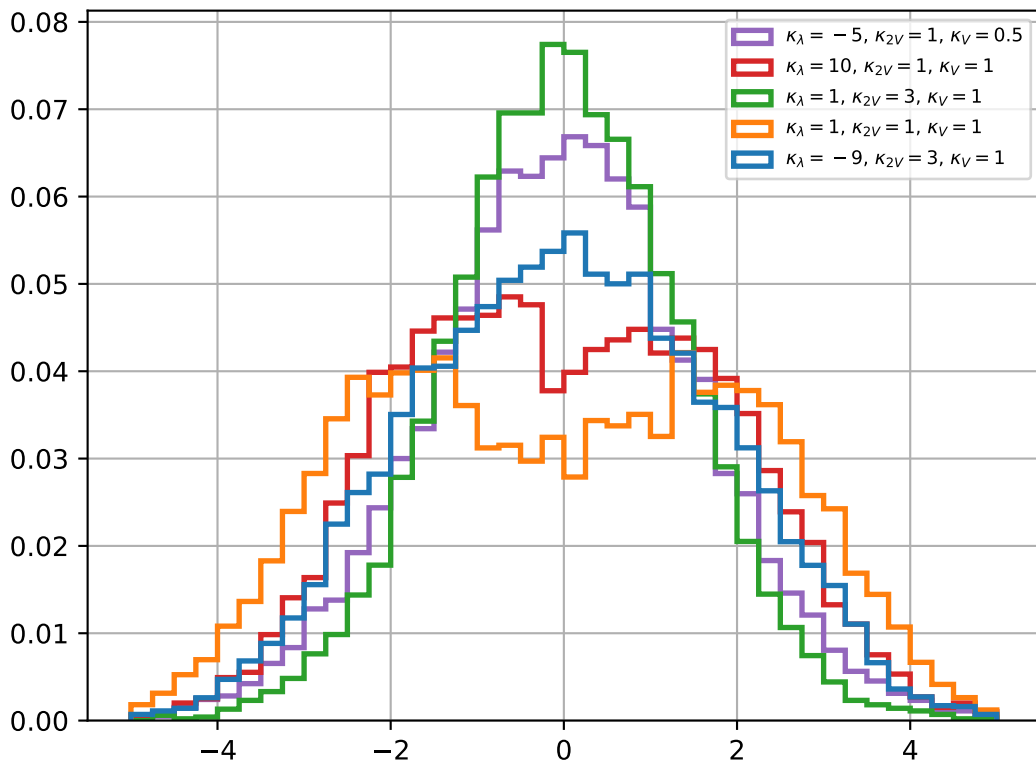
m(bb from H1)



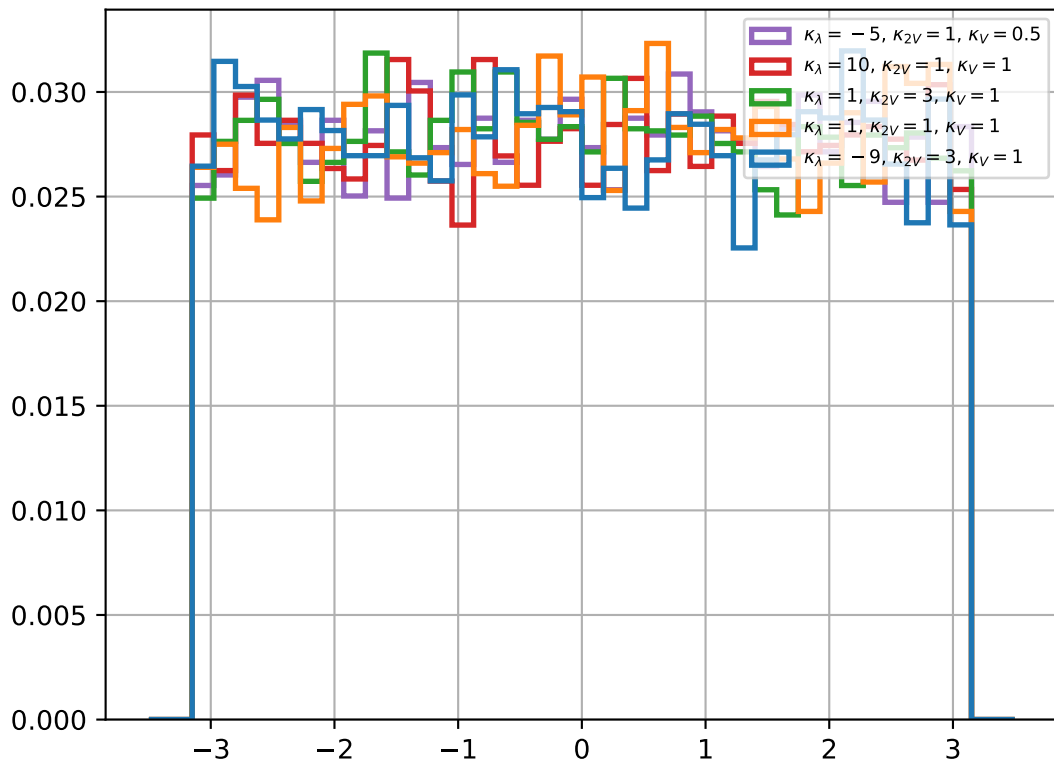
$p_T(bb\text{from}H2)$



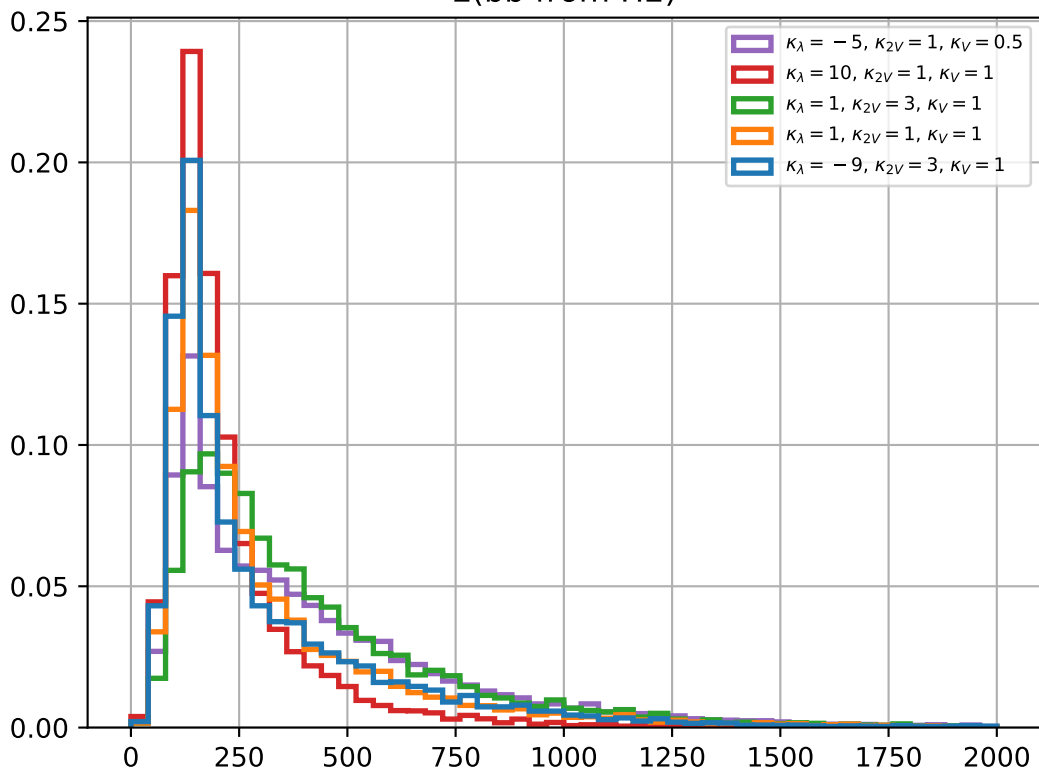
$\eta(bb\text{from}H2)$



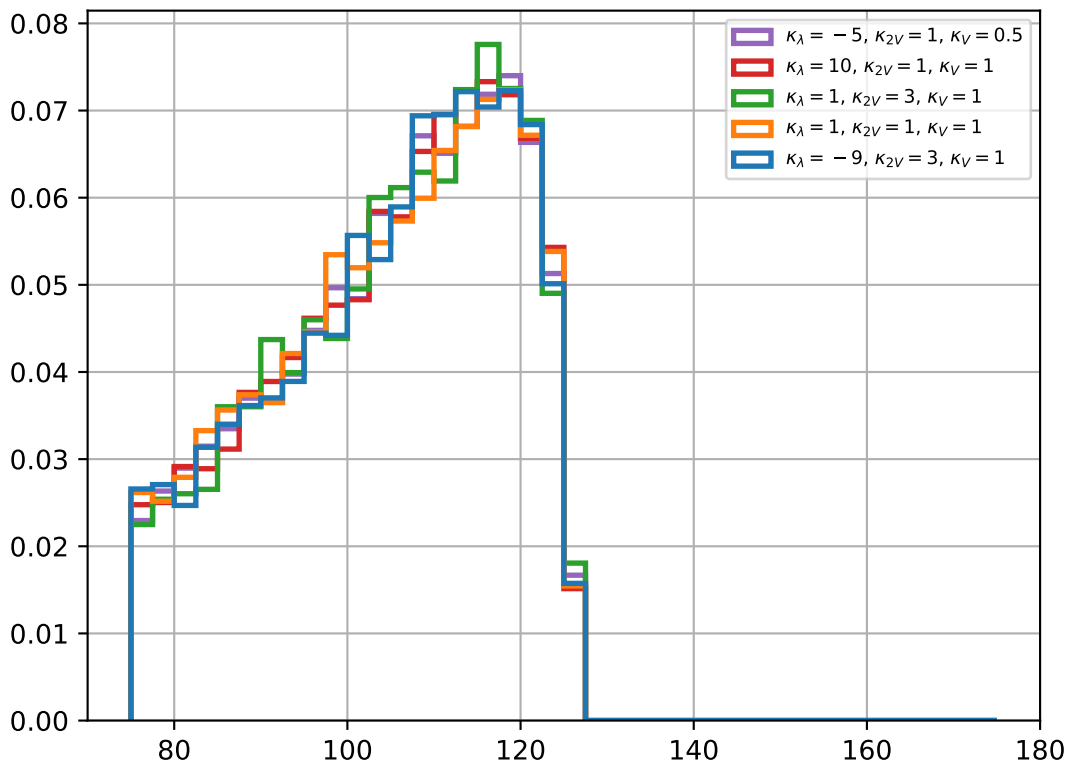
$\phi(bb\text{from}H2)$



E(bb from H2)

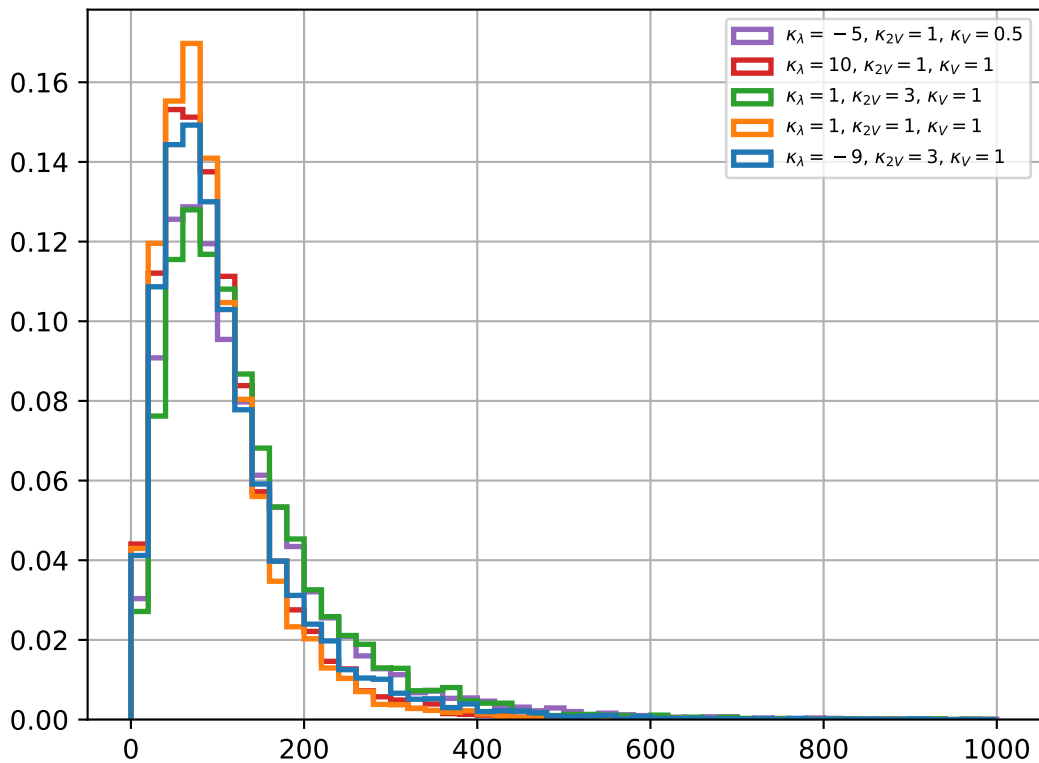


m(bb from H2)

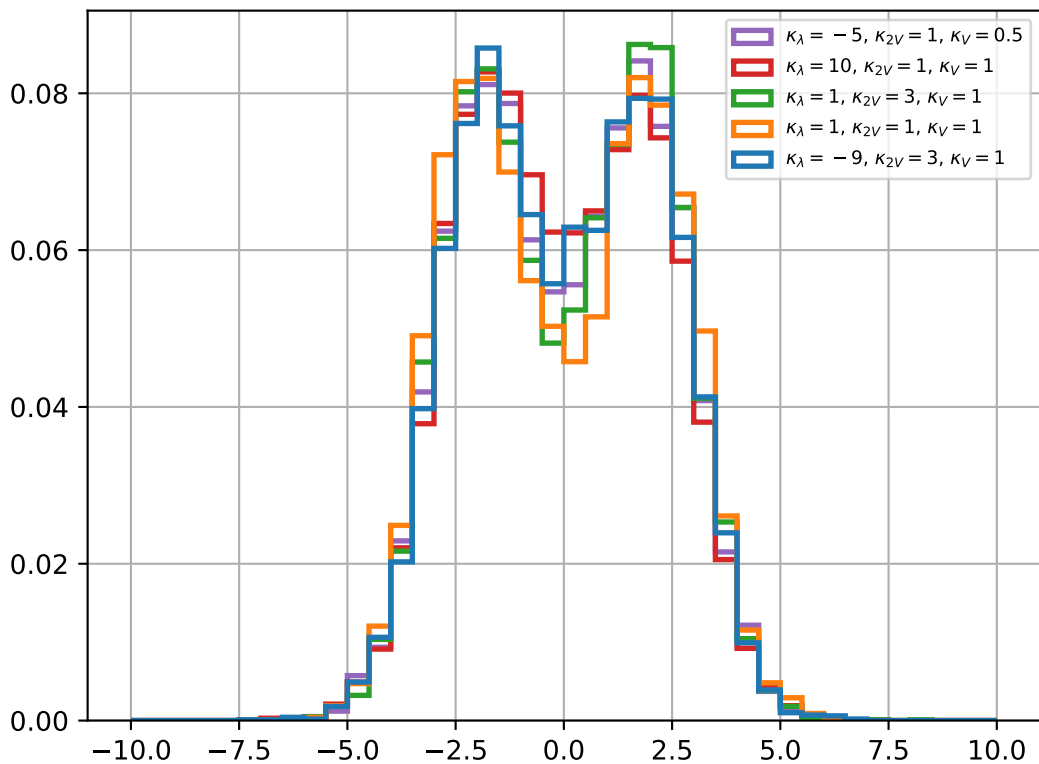




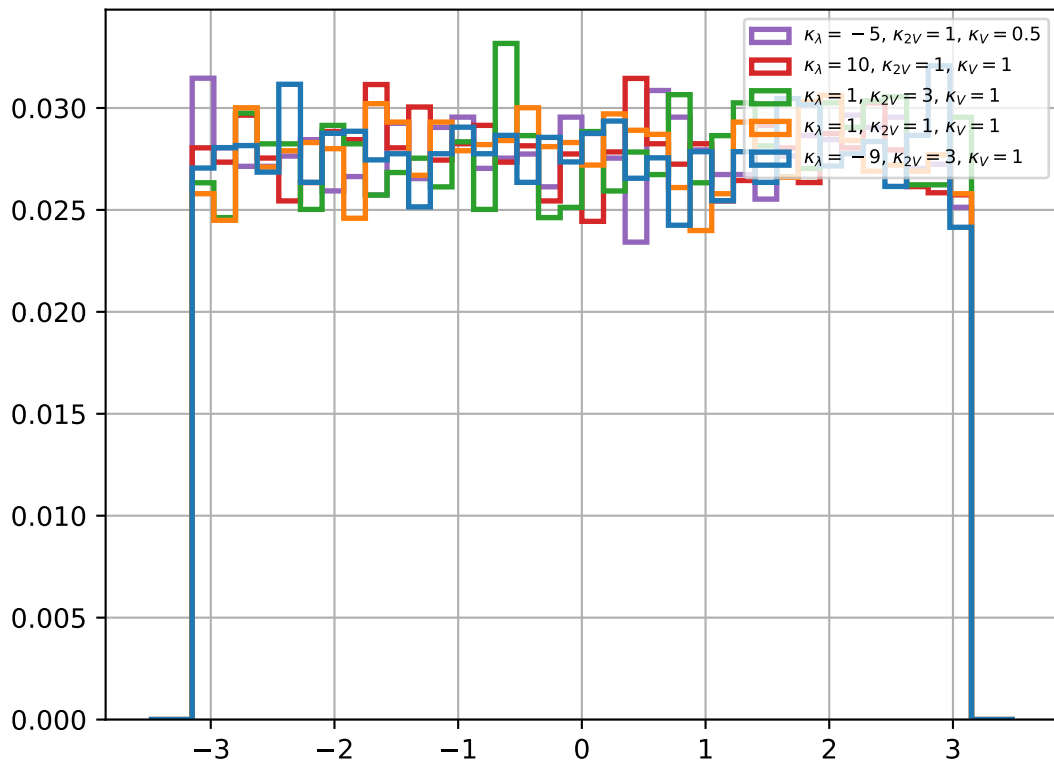
$p_T(bbbb)$



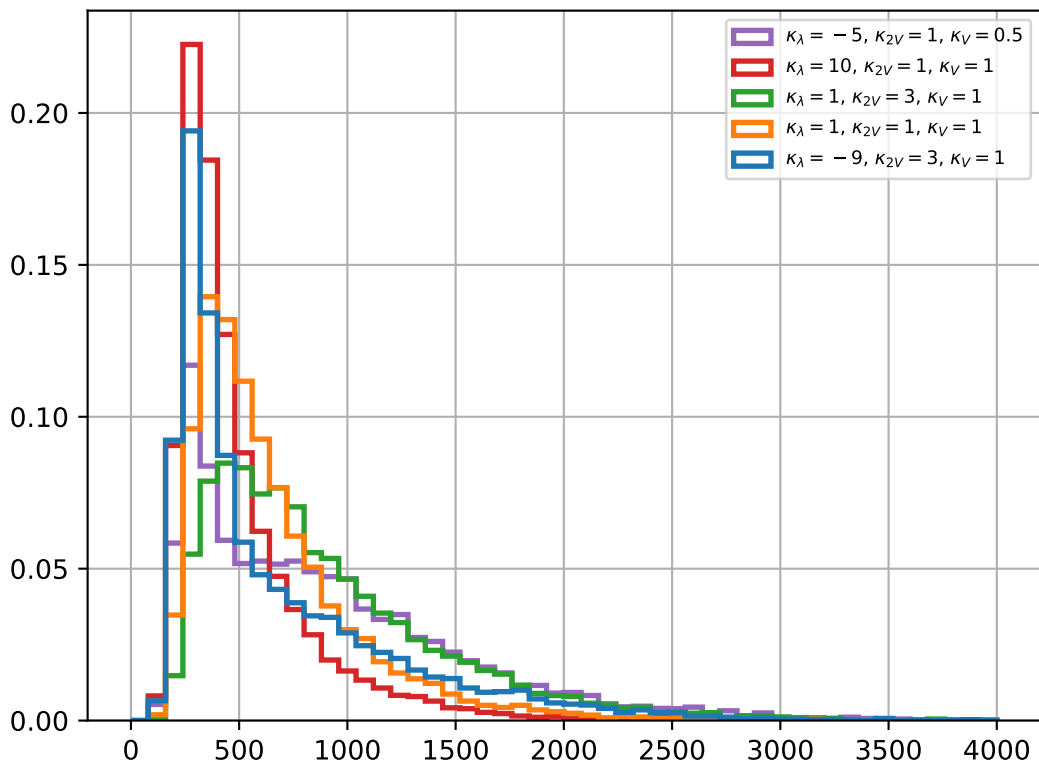
$\eta(bbbb)$



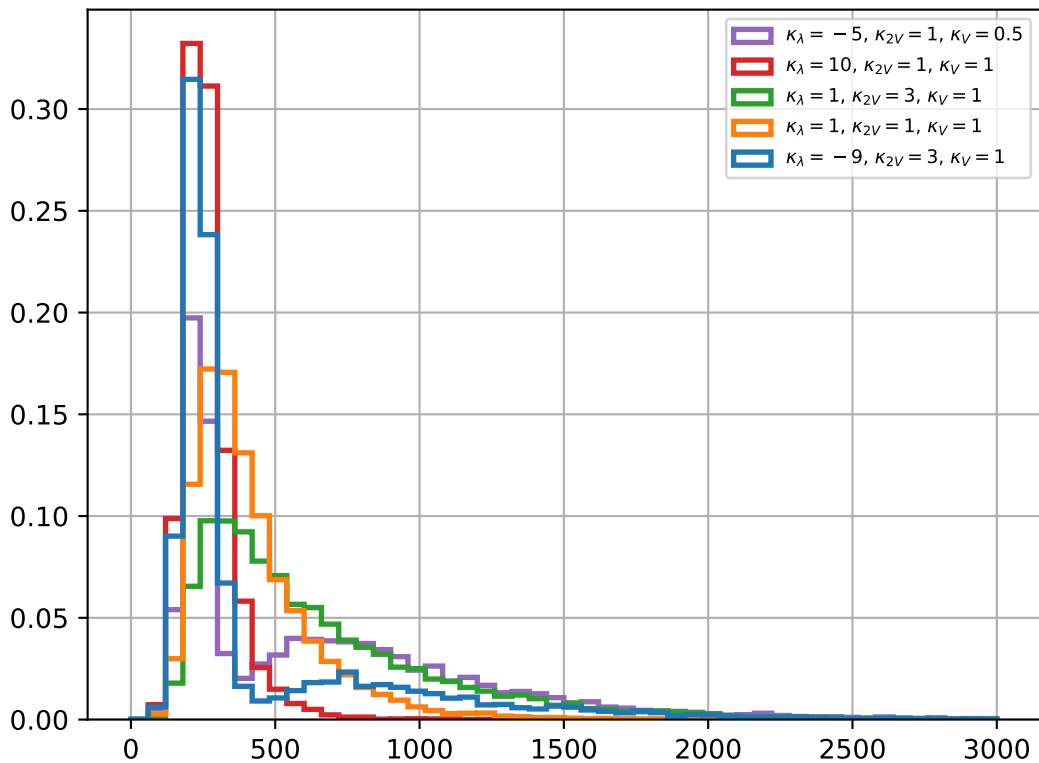
$\phi(bbbb)$



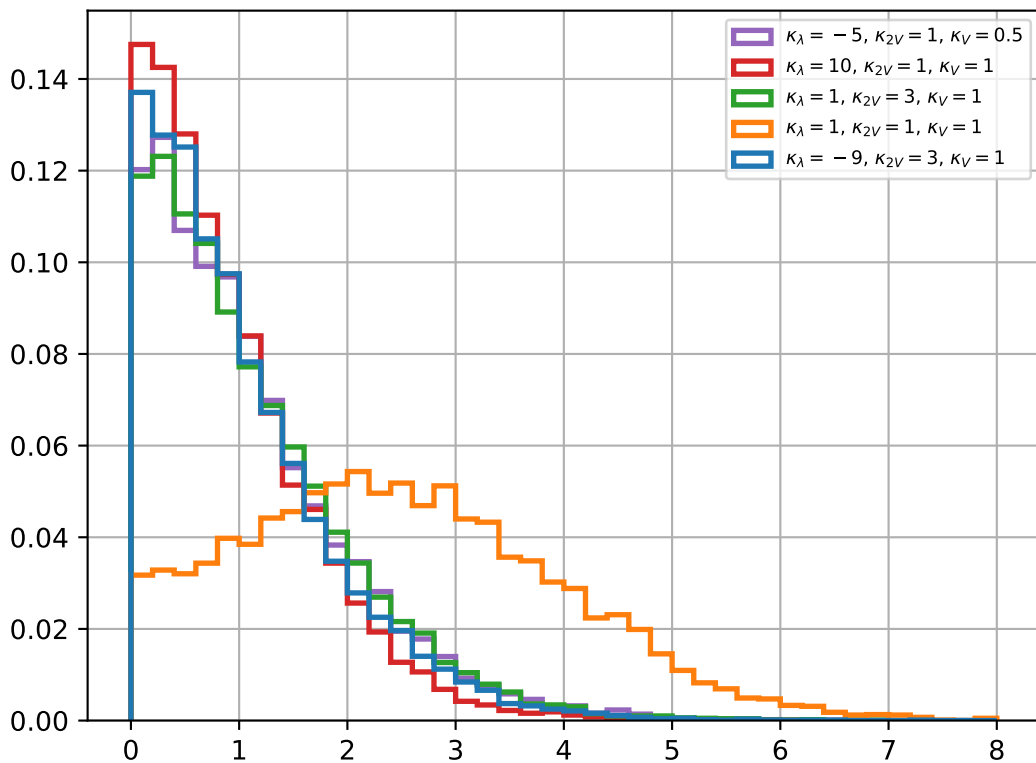
E(bbbb)



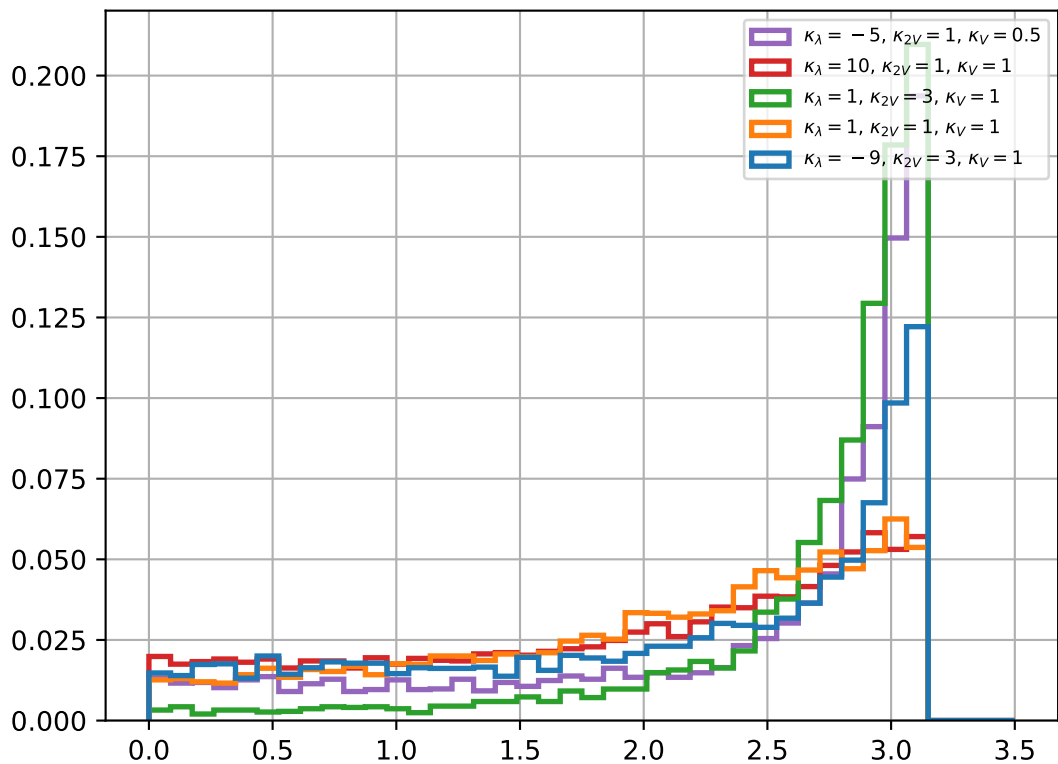
m(bbbb)



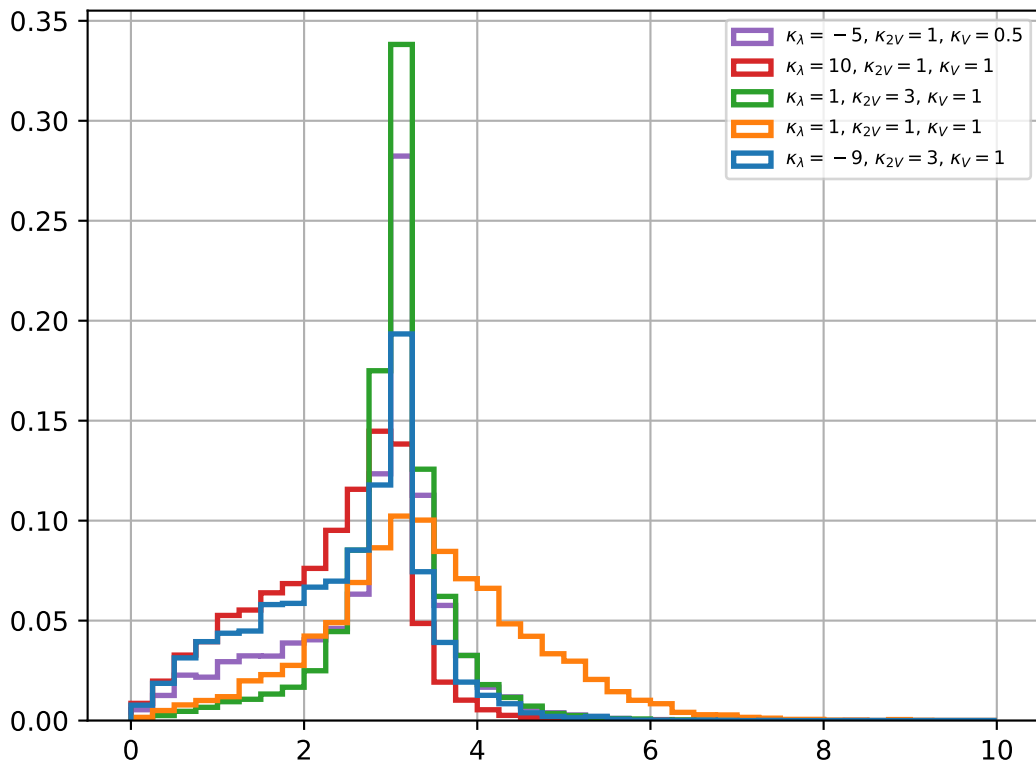
$\Delta\eta(bb, bb)$



$\Delta\phi(bb, bb)$

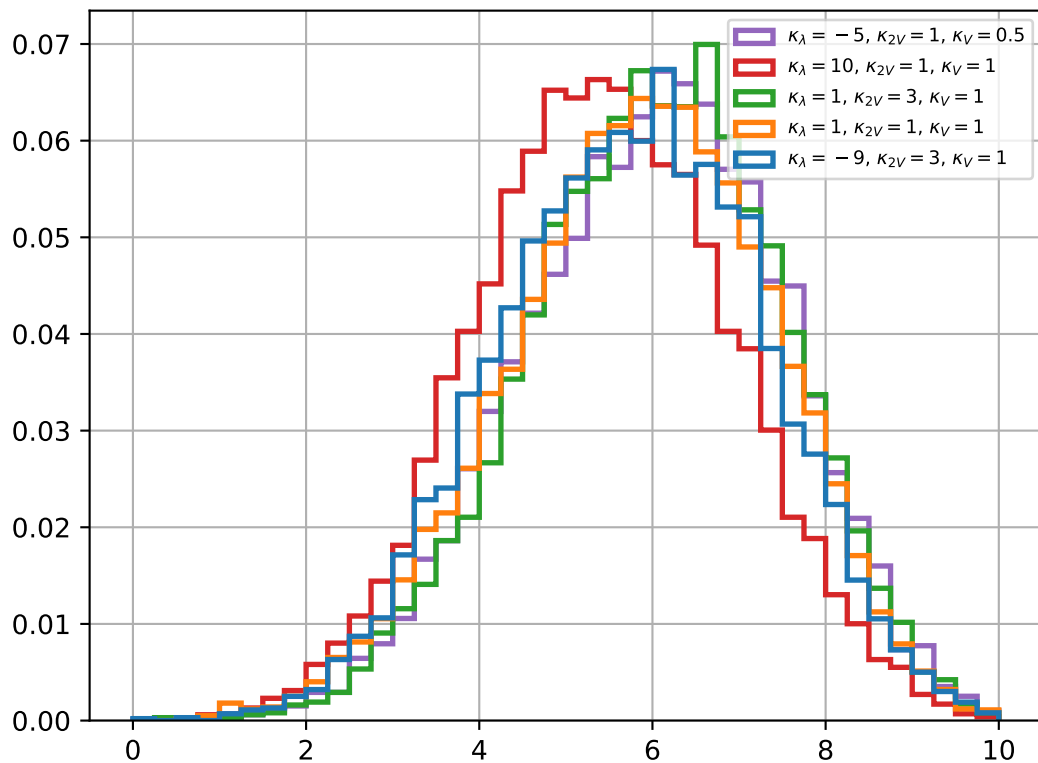


$\Delta R(bb, bb)$

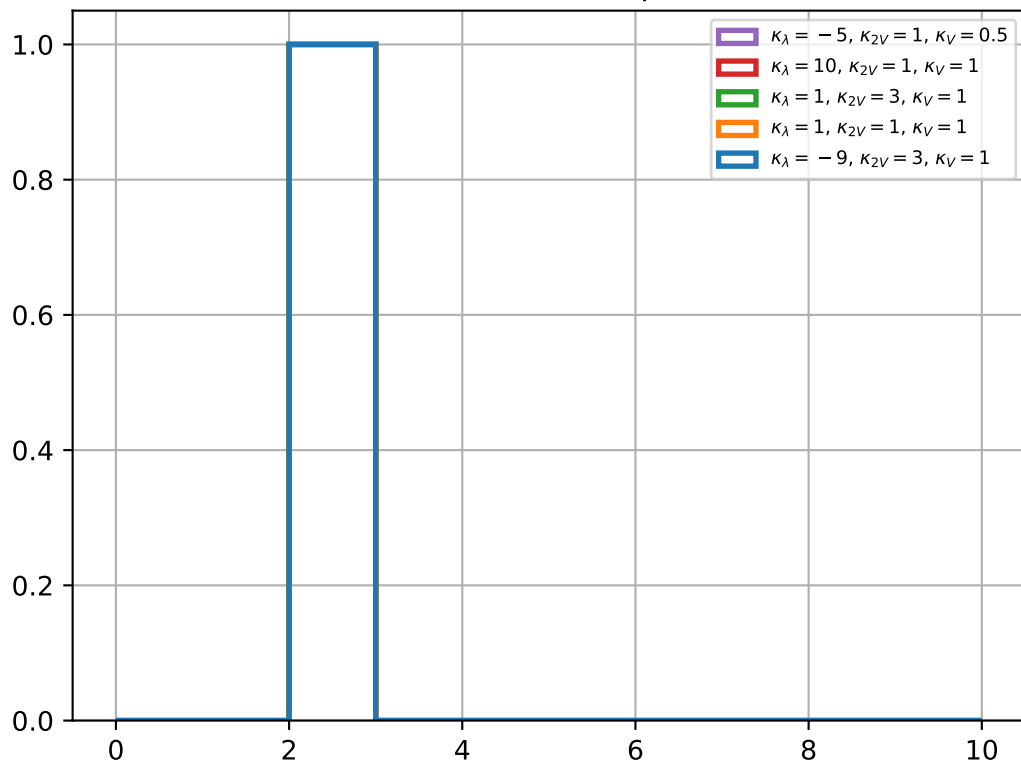




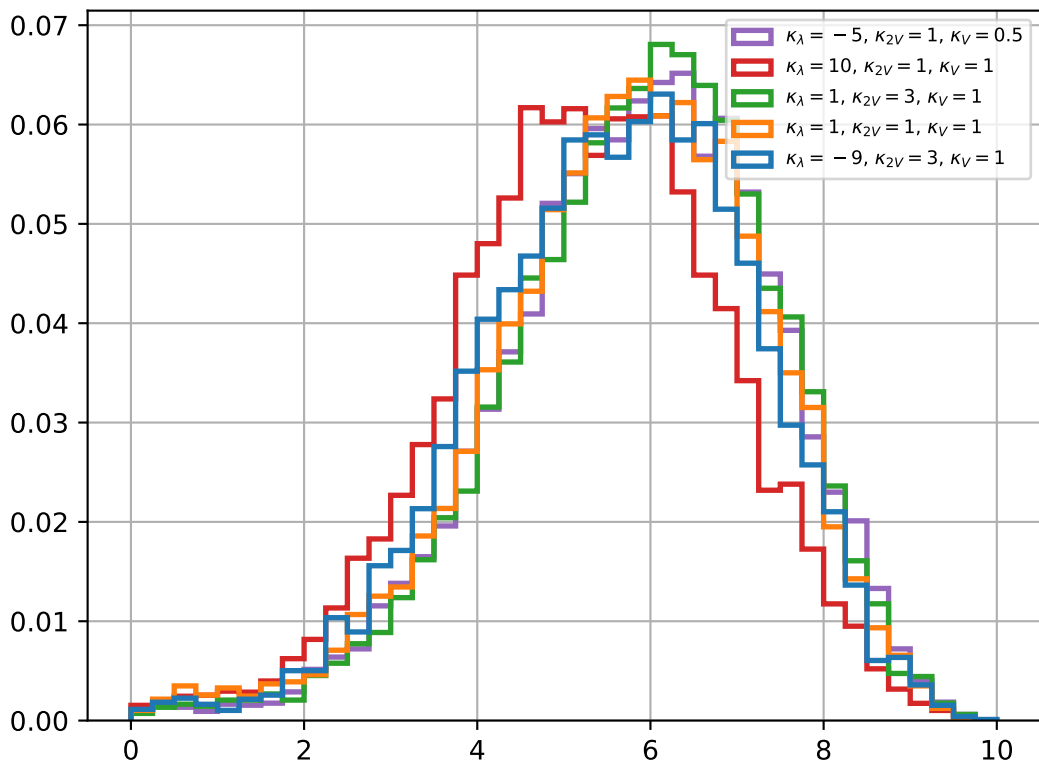
$$\Delta R(q, q)$$



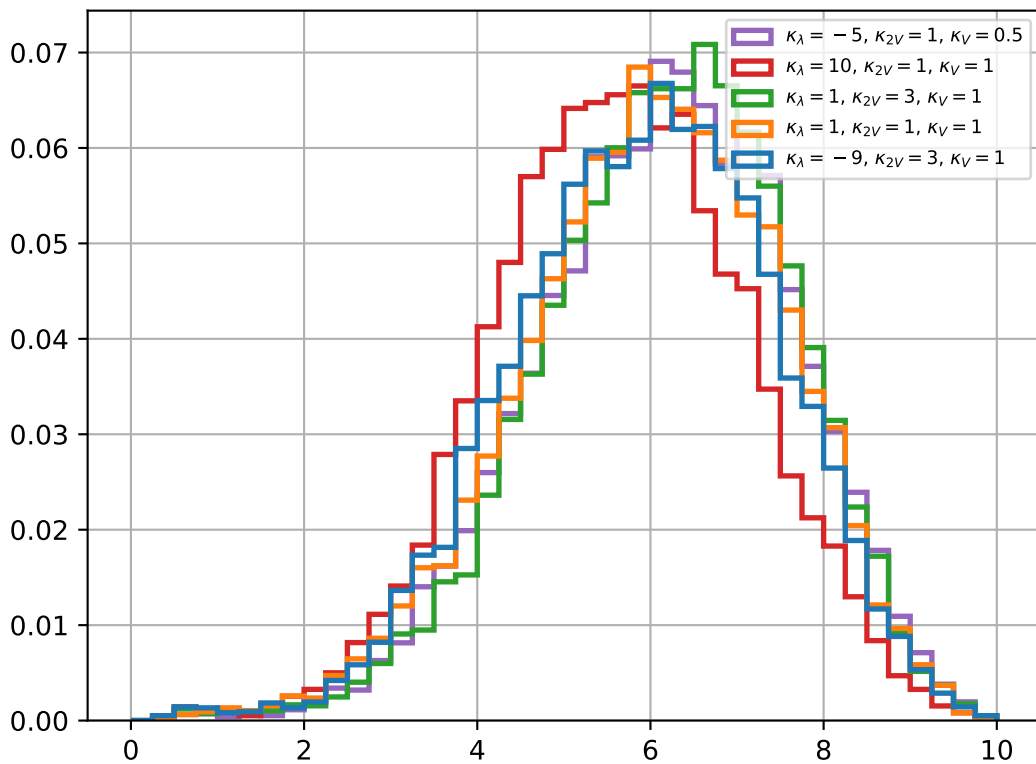
## Number of q



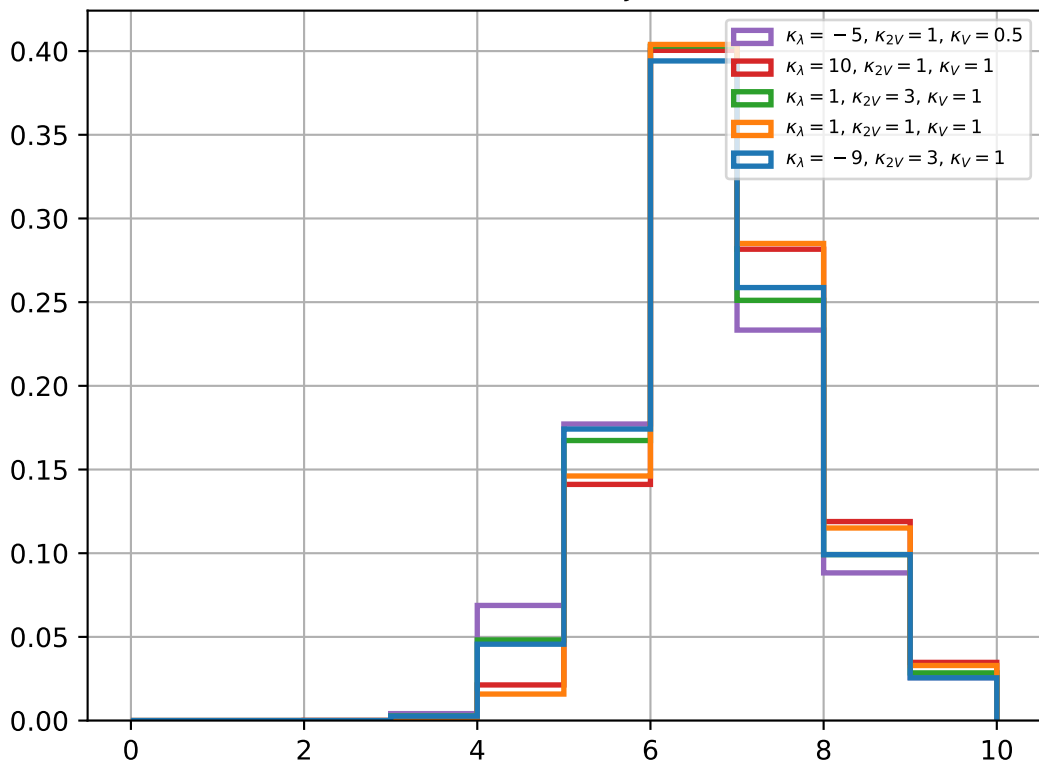
$$\Delta\eta(j, j)$$



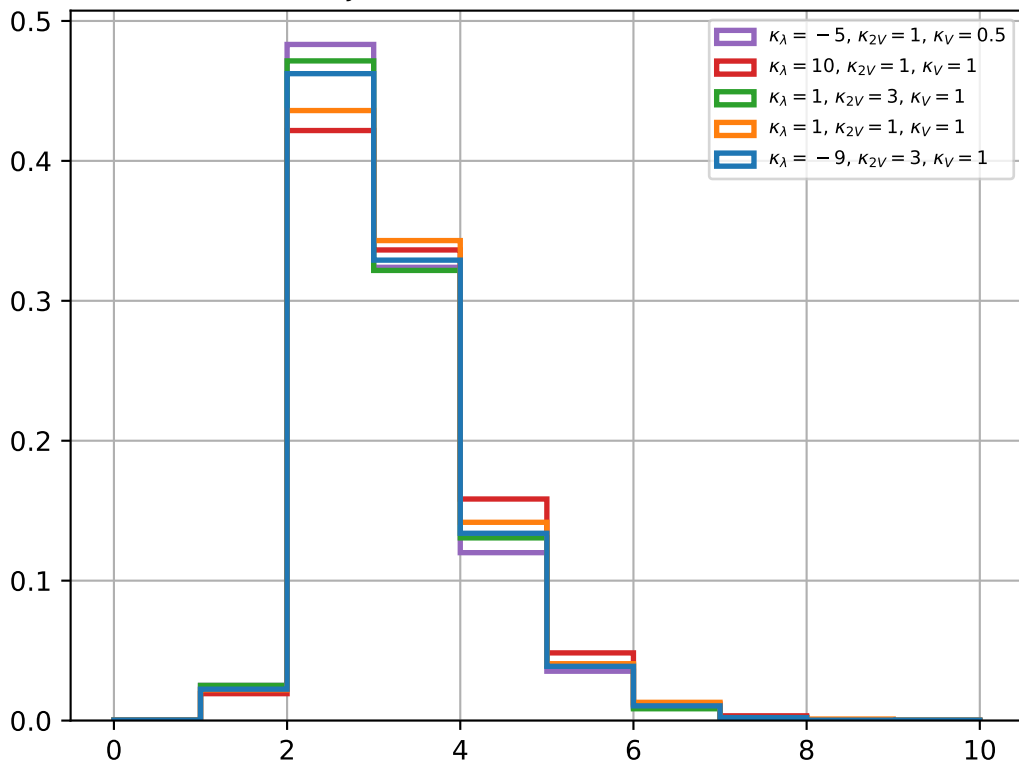
$$\Delta R(j, j)$$



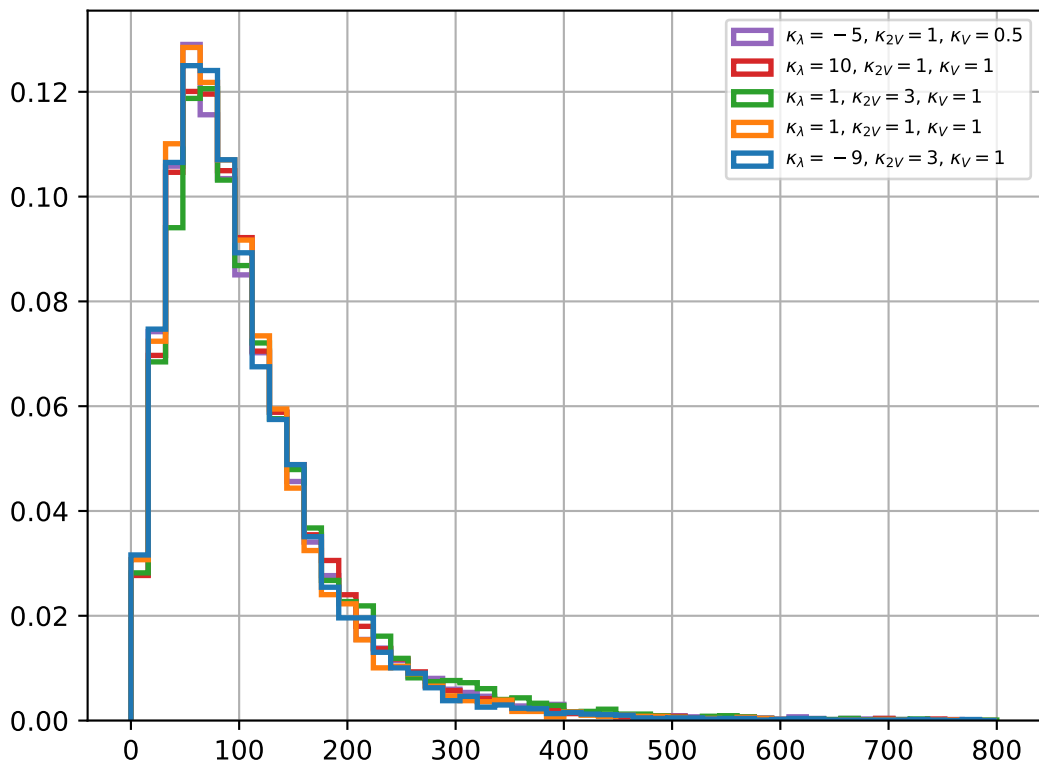
# Number of jets



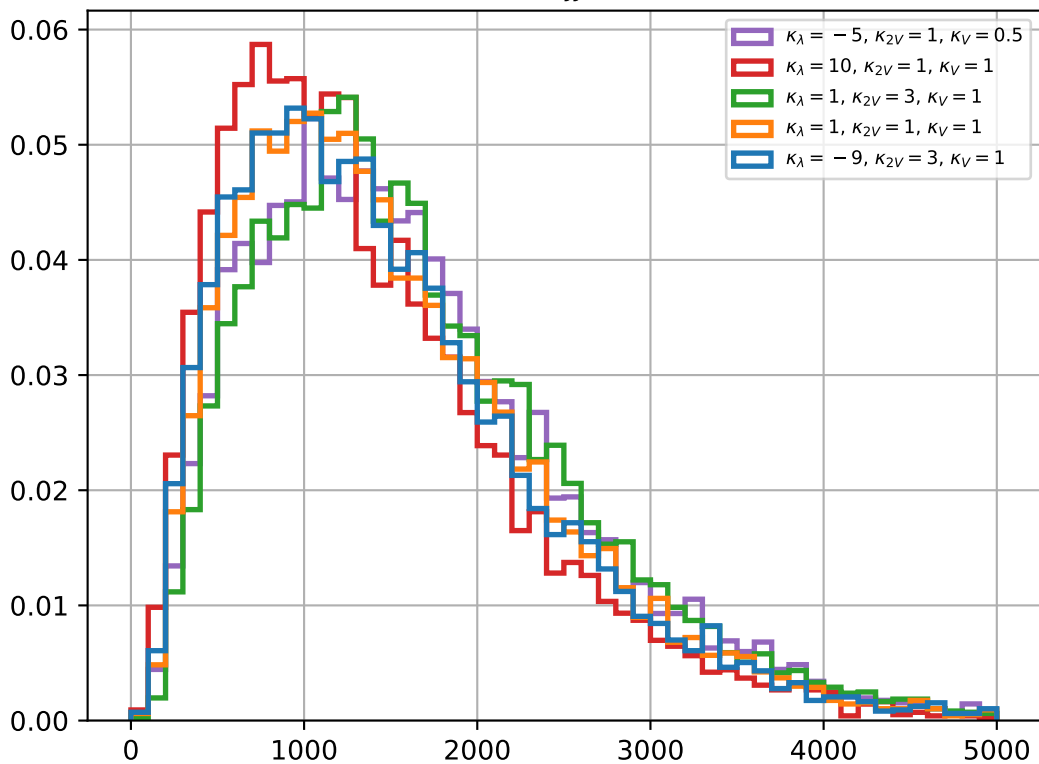
# Number of jets NOT truth-matched to B-Quarks



$$\rho_T(jj)$$



$E(jj)$





$m(jj)$

