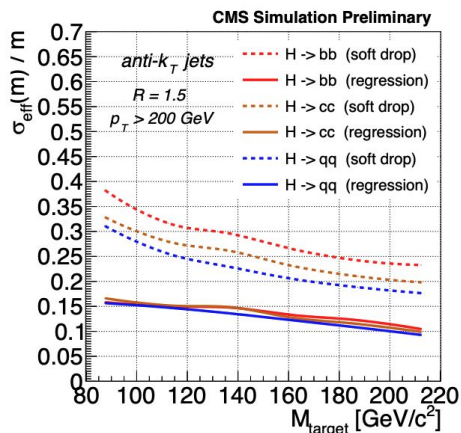


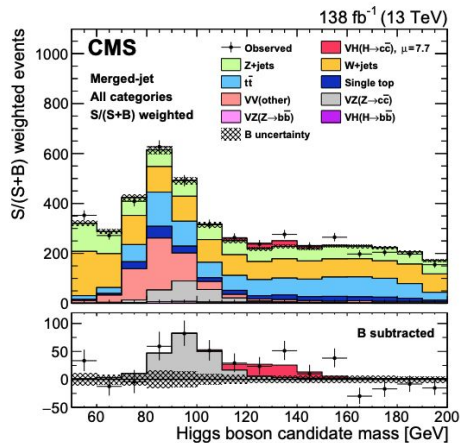
Charm Yukawa in CMS

[CMS-DP-2021-017](#)



Boosted mass regression

[Phys. Rev. Lett. 131, 061801](#)

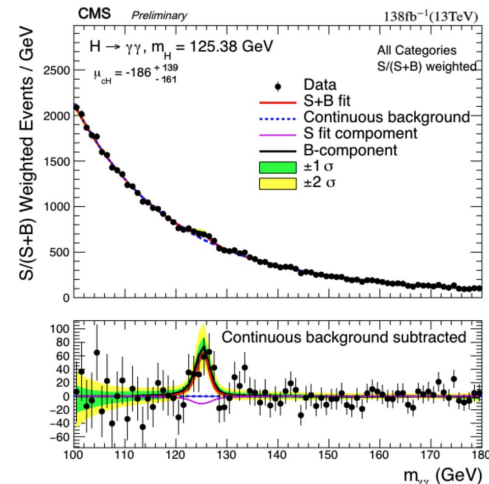


VH(cc)

first VZ(cc) observation

$\kappa_c < 5$ (3.4)

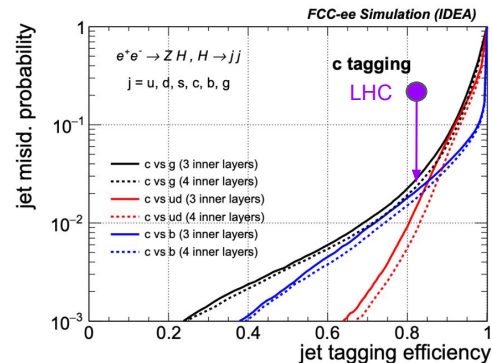
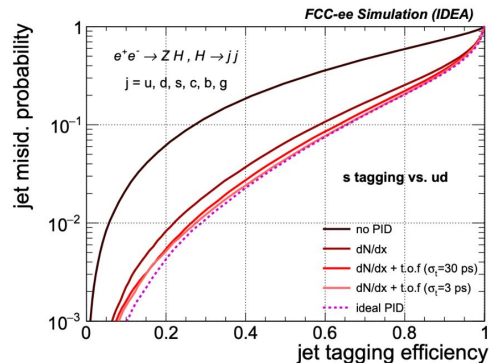
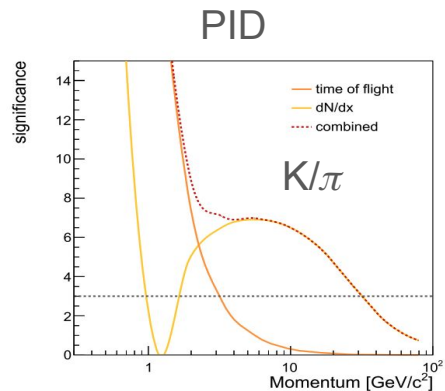
[HIG-23-010](#)



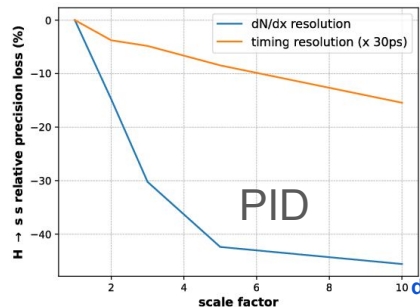
H+c

$\kappa_c < 38$ (72)

Vertex/PID impact on Yukawas - FCC-ee

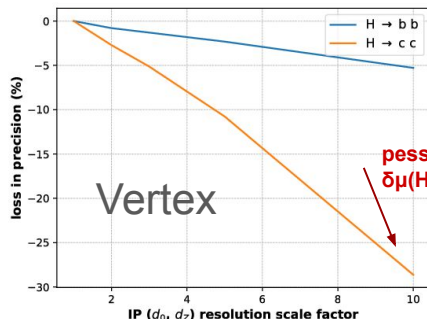


nominal performance:
 $\delta\mu(H_{ss}) = 100\%$

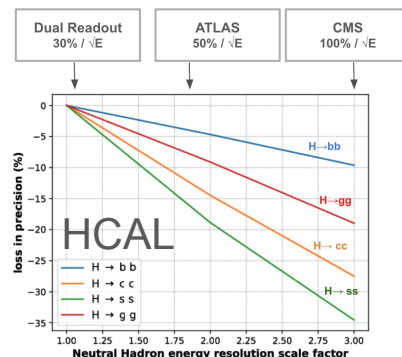


degraded dN/dx
resolution:
 $\delta\mu(H_{ss}) = 140\%$

nominal performance:
 $\delta\mu(H_{cc}) = 1.6\%$



pessimistic performance
 $\delta\mu(H_{cc}) = 2.2\%$



Electron Yukawa FCC-ee

