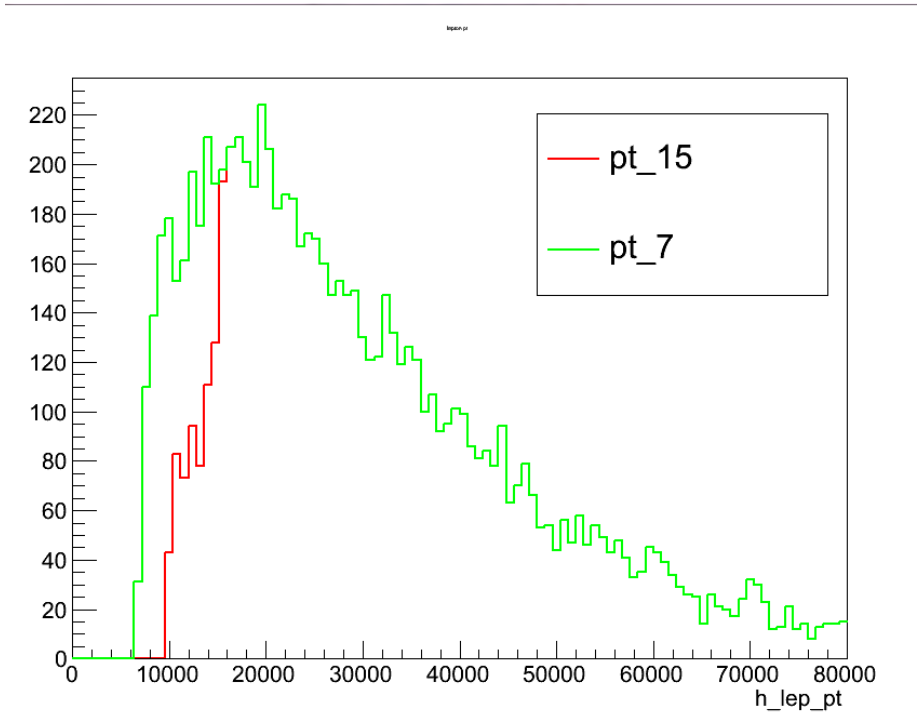
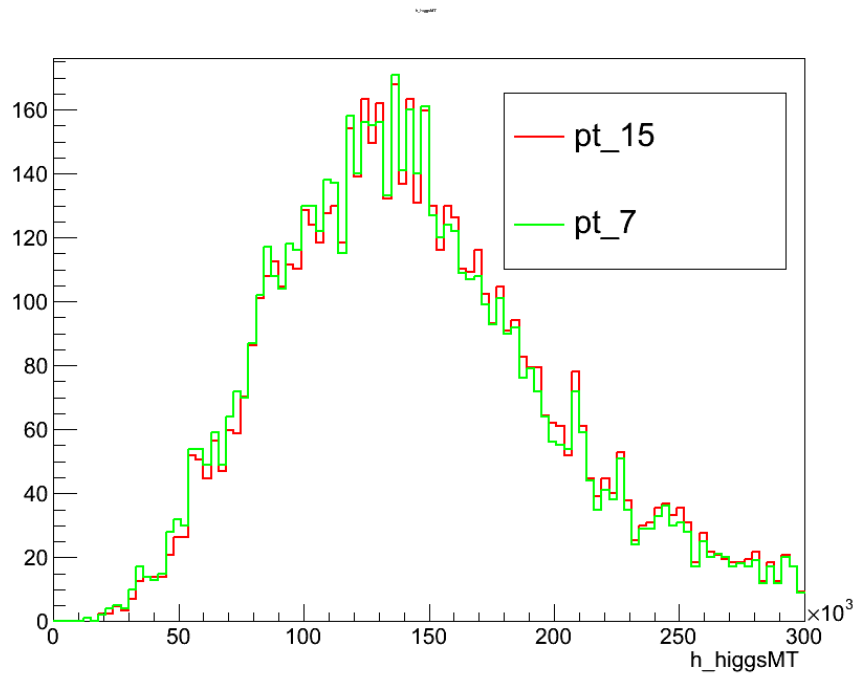
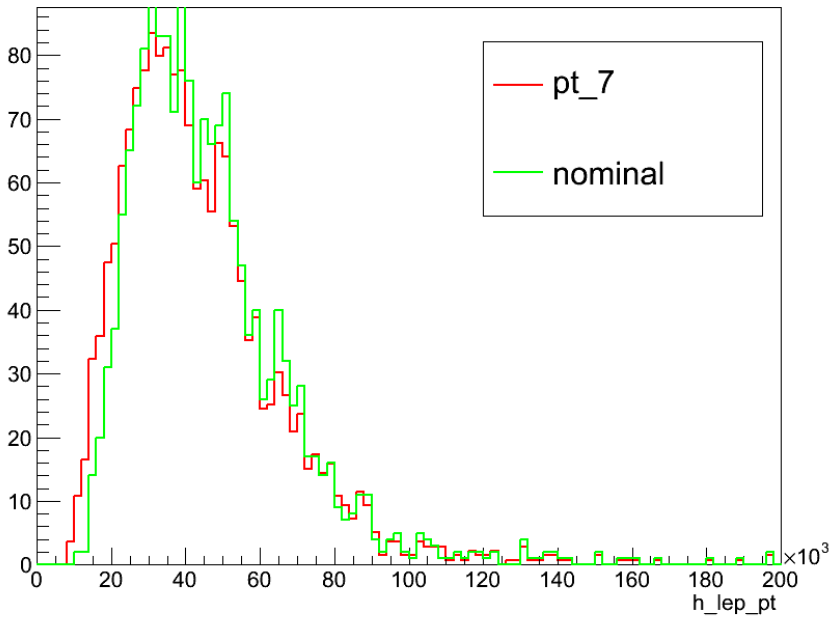
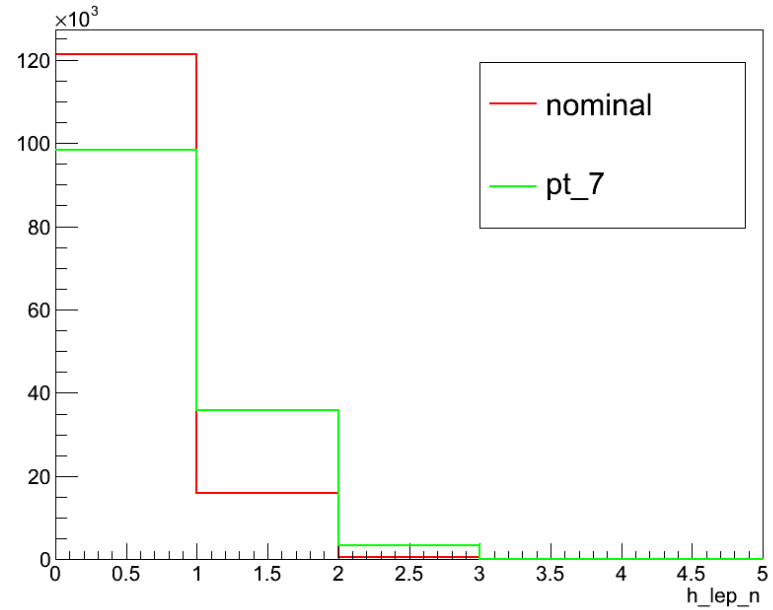
Change to 7?

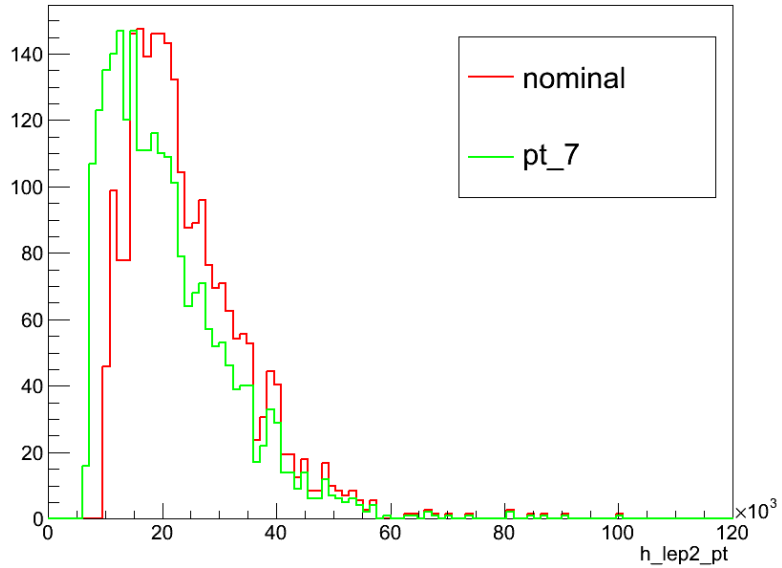
	Cut	Events ledf	Final Efficency
2 lep case	15	1497/25142	6%
	7	2093/25142	8%
1 lep case	15	7743/107756	7%
	7	8856/107756	8%






pt_7
nominal
h_lep_pt
×10^3

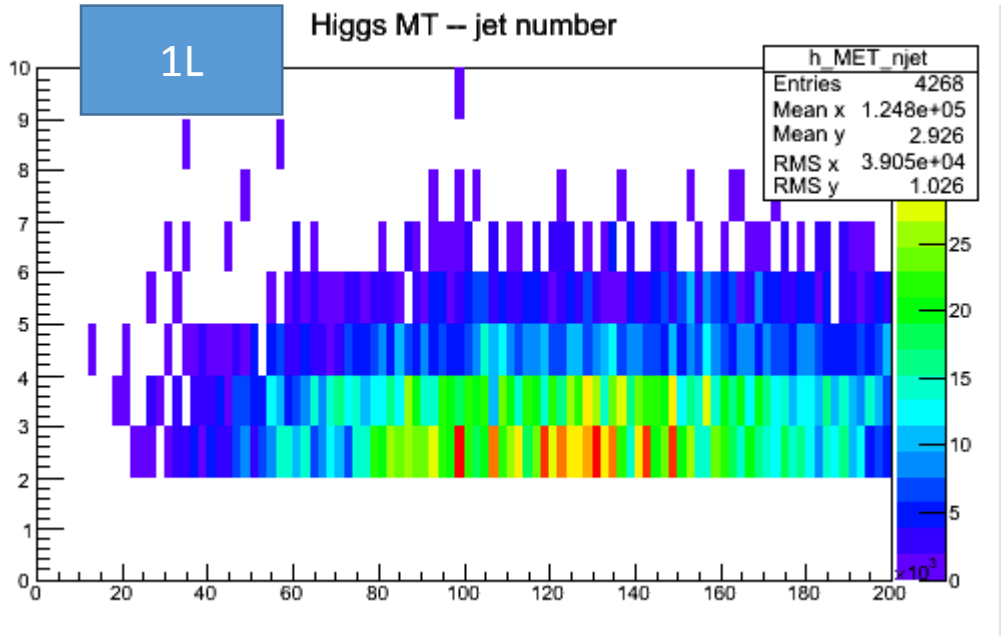

nominal
pt_7
h_lep_n
×10^3

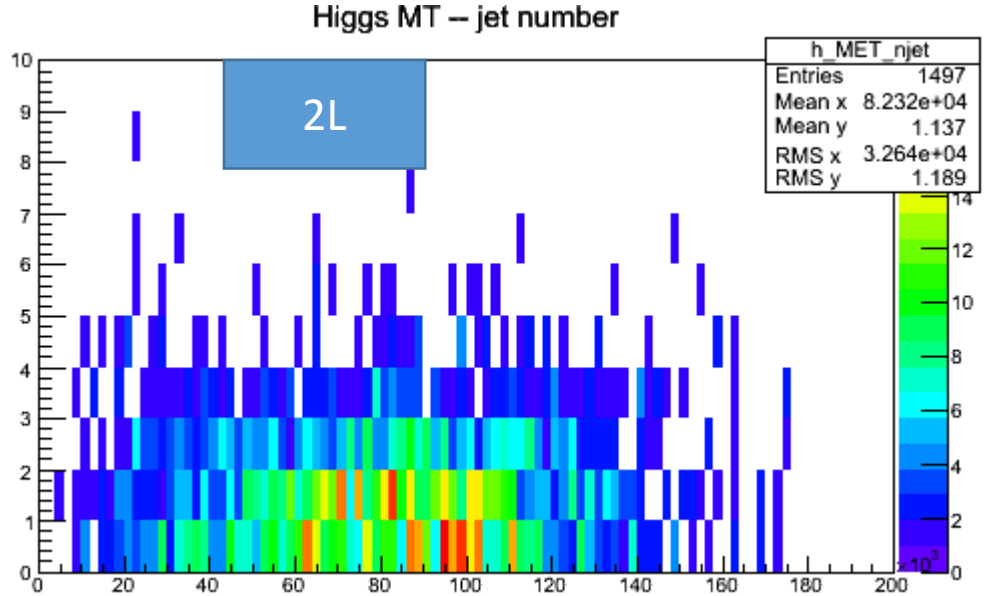

nominal
pt_7
h_lep2_pt
×10^3

Bveto effect

MV1	B-tagging eff	Tth	Signal
0.39	80%	52%	92%
0.81	70%	59%	96%

Jet multiplicity effect





Expected events in signal region

1L

- xs(pp->H->hh) *2*Br(h->yy)* Br(h->ww)*2*Br(w->lv)*Br(w->jj)*eff*

  = xs*0.00228*0.215*0.3*0.6*4*0.07

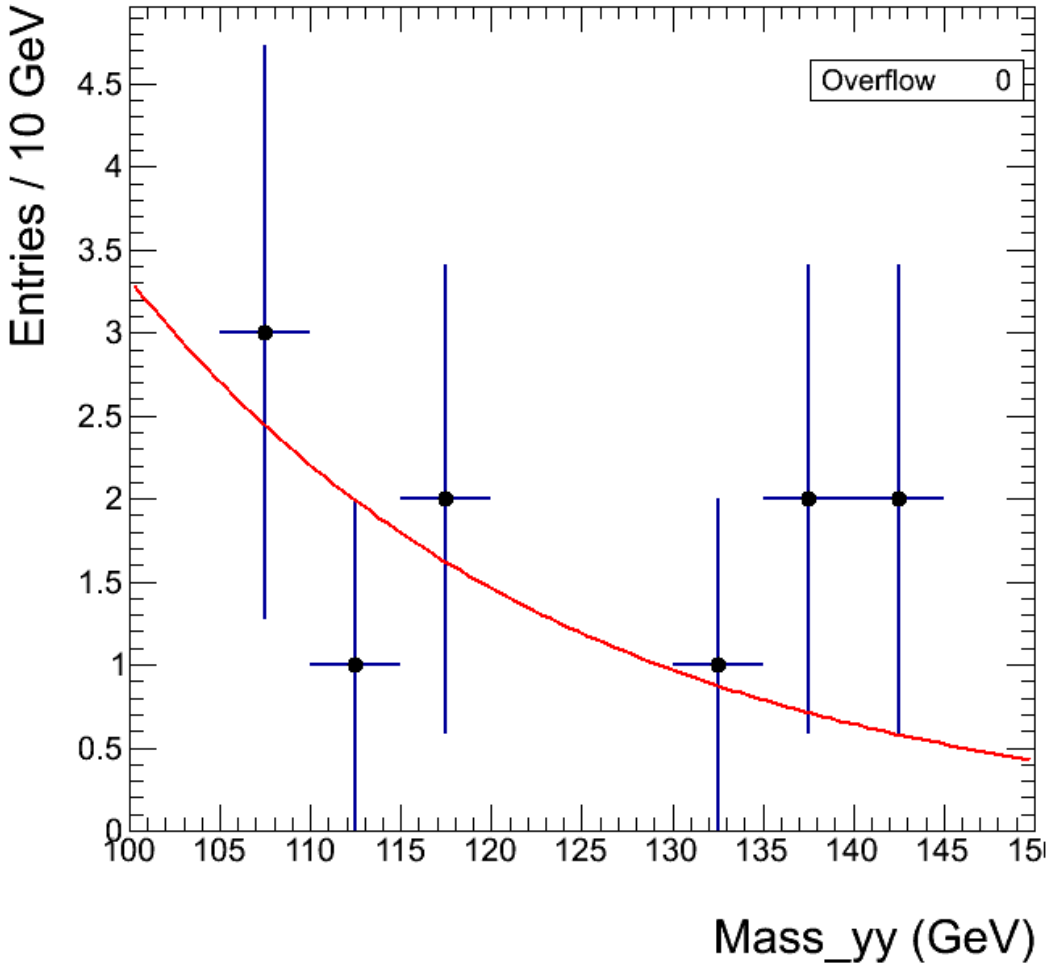
  = 0.5*xs

2L

- xs(pp->H->hh) *2*Br(h->yy)* Br(h->ww)*Br(w->lv)^2*Br(w->jj)*eff*

= 0.1*xs

Expected bkg in signal region



About 2.5 bkgs

Wh =0.7

Tth = 0.1

Others = 1.7.

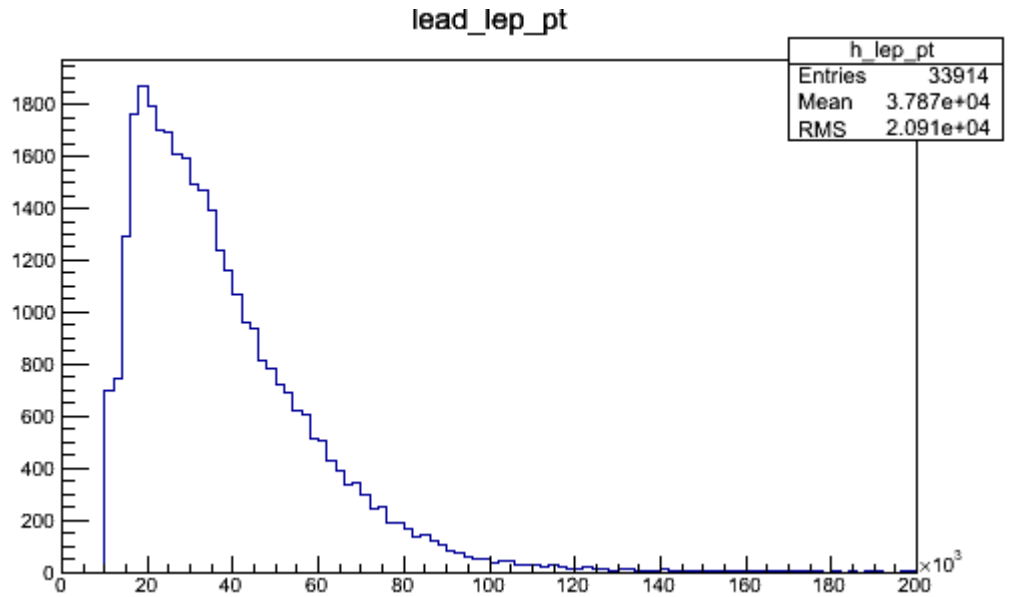
- A tutorial of xAOD

https://indico.cern.ch/event/313717/other-view?view=standard

To do

- Try to use reverse ISO to estimate background ->

- Try to understand why the subleading lepton drops this much



backup