

Depressing news

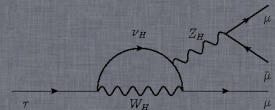
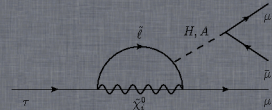
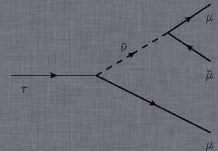
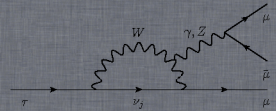
Marcin Chrzęszcz^{1,2}

¹ University of Zurich , ² Institute of Nuclear Physics, Krakow,

February 24, 2014



University of Zurich^{UZH}



Limit variations

- Paul prepared new signal PDF using old GeoMVA and old binning for GeoMVA.
- I calculated the limit with new classifier and new binning and old classifier and old binning.
- Only removed the PID trash bin.
- GeoMVA: 9.6×10^{-8}
- BLEND: 9.1×10^{-8}

Conclusions: MN + binning improves.

Limit variations 2

Only thing that can explain this:

- Bug in the limit script.
- PIDCalib
- α .

Illuminate me please

- Lets take:
limit_Tau23Mu_withsystematics_unblinded_PAPERdev2
- $\alpha = 2.515$
- η veto: $\alpha = \alpha / 0.812 = 3.1$
- Rest of alpha manipulation is trashing, which both alpha don't include.
- what did i miss to go from 3.1 to 4.1?

η stuff

- After applying all selections $\eta \rightarrow \mu\mu\gamma$ bck I got left 505 events.
- Rule of thumb calculations means that we should get 50 events peer 1 fb^{-1} .
- To little events for bin by bin fit.
- Let's fit a single PDF and fix the PDF on this case. Will make our life easier.

