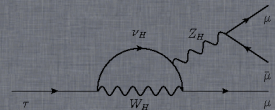
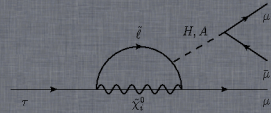
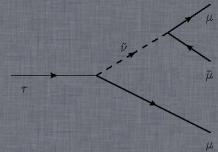
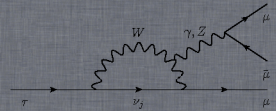


Limit cross checks of cross checks...

Marcin Chrząszcz

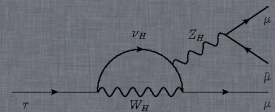
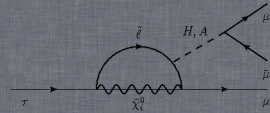
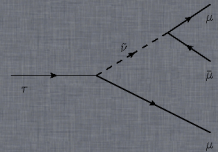
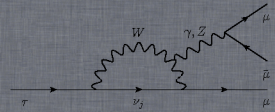
Institute of Nuclear Physics,
Polish Academy of Science

18th October



Limit studies

Making a fake trash-bin

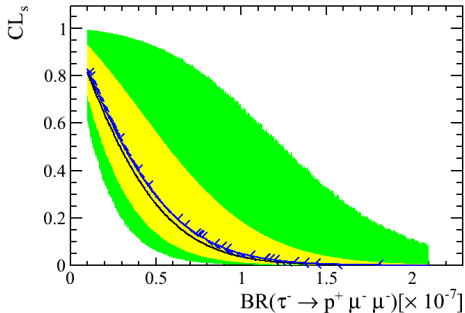


Fake bin

- Add to trash bins the observed number of events
- Errors take the same size as the ones we have now in those bins.
- 0.5M toys peer bin. (Previously we had 2M).
- Results: Expected: 8.16×10^{-8} , observed: 7.6×10^{-8} .
- To be compared with: 8.21×10^{-8} and 7.89×10^{-8} .

To be, or not to be: that is the question.

Do we now believe the limit script?



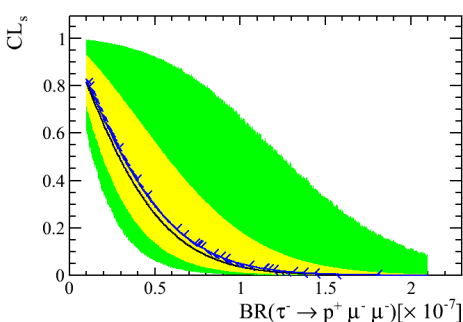
Explanation.

Don't get excited about the 0.3 improvement!

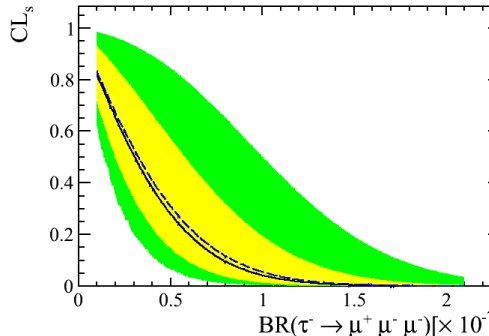
The errors are wrong on the trash bins because are taken from wrongly made fit!

This make the banana more fat, and increases artificially the limit.

Have a look below



Banana, you don;t want to eat this one.



slim banana.

M.Chrząszcz 2012

Conclusion

Limit holds another cross check. we are happy =)