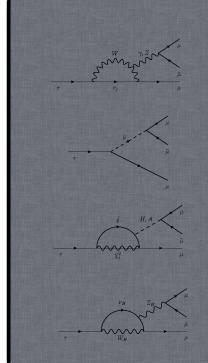
Quo vadis $\tau \rightarrow 3\mu$?

Marcin Chrząszcz

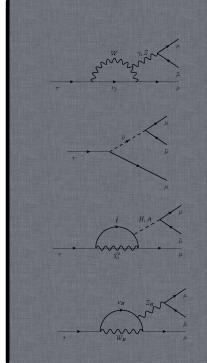
Institute of Nuclear Physics, Polish Academy of Science

31st October



η cutting

Cutting η Peak in signal window Limit Permutations



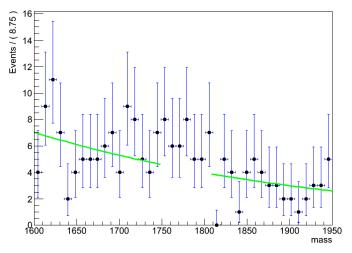
Cutting η

We have two possibilities to cut η away:

- Use MLP:
 - **1** In low bins we see bad $M(3\mu)$ distribution. Peaks in in tau mass.
 - 2 We safe signal: we are loosing 32% signal.
- Veto η:
 - 1 Lover efficiency. 36% lost of signal.
 - 2 Safe and easy physics interpenetration.

Peak in signal window

A RooPlot of "mass"

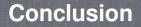


M.Chrząszcz 2012

Limit Permutations, Many thanks to Paul

- OLD: 8.3
- NEW, full eta cut: >8.9
- New, eta cut high bins: > 8.9

Something is wrong.



Limit holds another cross check. We are happy =)