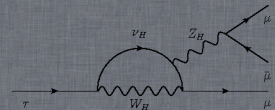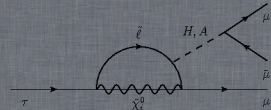# Updates on activities.

Marcin Chrząszcz[1,2] , Nicola Serra[1]

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

13th August 2013
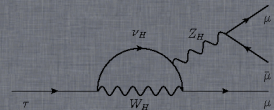
University of Zurich [UZH]
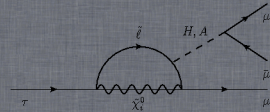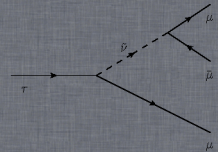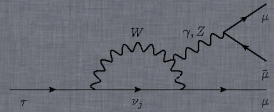
$\tau \rightarrow 3\mu$

    MC samples

    Binning optimisation

    Cleaning samples

MC Samples

Finished producing normalization channel samples: $D_s \to \phi(\mu\mu)\pi$.
The mixing proportion are:
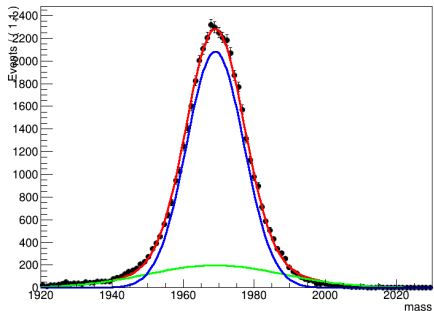
1. $c\bar{c} \to D_s \to \phi(\mu\mu)\pi$ 897000
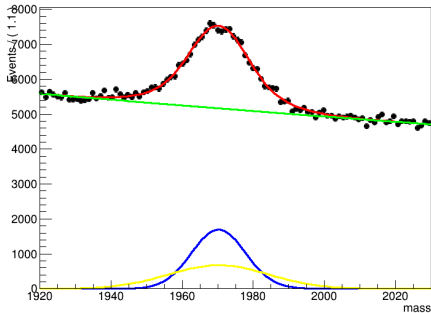2. $b\bar{b} \to D_s \to \phi(\mu\mu)\pi$ 103000

All done. ☺

MC Samples

MC

DATA

All done. 😊

Binning optimisation

Used Punzi FOM instead of CLs. Did also fine tunning.

M.Chrząszcz, N.Serra 2013
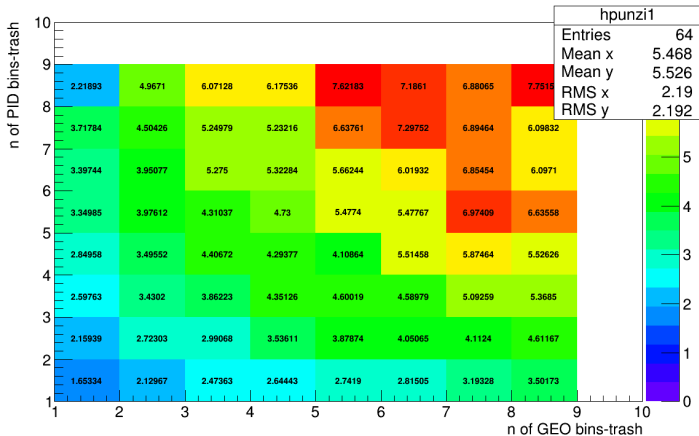
Cleaning samples

I observed a strange a strange thing. Even tho we simulate a chain:$B \to D \to \tau \to 3\mu$.
In the ntuples we have events that truthmatch:$cc \to D \to \tau \to 3\mu$.
It's $< 2\%$ effect so in the end I just cut them away and renormalized it again.

Apologies

I'm very sorry for a small update but I was cut off the internet and had only *tau* $\rightarrow 3\mu$ ntuples to play with.I am chasing up with work.