

# Updates on activities.

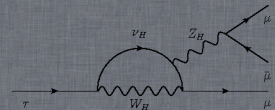
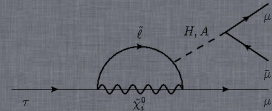
Espen Bowen<sup>1</sup>, Marcin Chrzęszcz<sup>1,2</sup>,  
Nicola Serra<sup>1</sup>

<sup>1</sup> University of Zurich, <sup>2</sup> Institute of Nuclear  
Physics, Krakow,

February 18, 2014

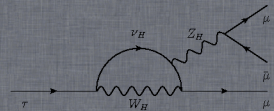
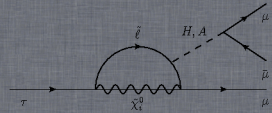
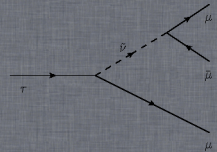
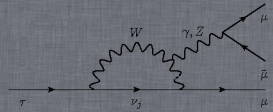


University of  
Zurich<sup>UZH</sup>



$$B \rightarrow K^* \mu \mu$$

$$\tau \rightarrow 3\mu$$

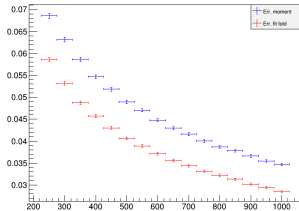
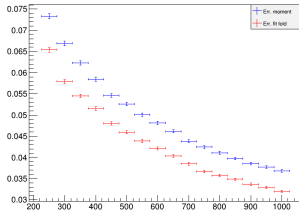


# Fit Wars

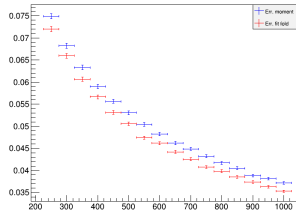
not so long time ago in office meters from here:

- Let's take just signal MC and fit it using folding LL and moments.
- Compare the precision

# Fit Wars



- Fit wins. but Moments will strike back.
- In the backups all the pool plots.

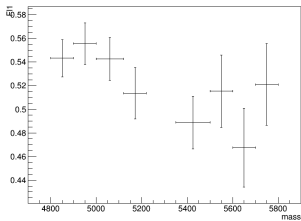


# Background update

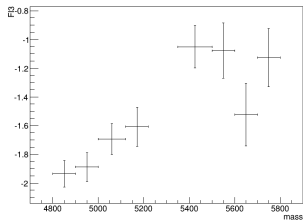
- Redone the bck moments with new binning scheme

# bck moments

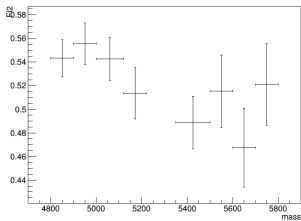
Q[0\_1-0\_98]\_F1



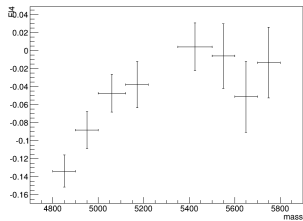
Q[0\_1-0\_98]\_F3



Q[0\_1-0\_98]\_F2

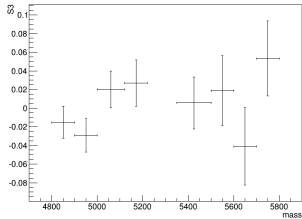


Q[0\_1-0\_98]\_F4

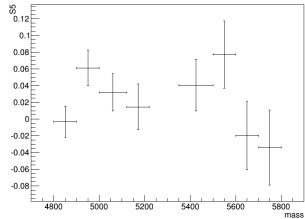


# Bck moments

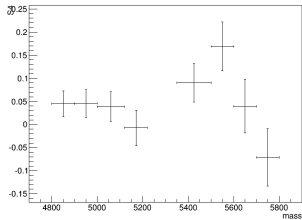
Q[0\_1-0\_98]\_S3



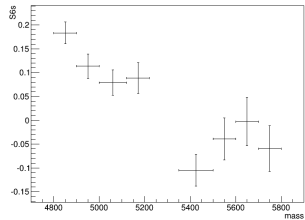
Q[0\_1-0\_98]\_S5



Q[0\_1-0\_98]\_S4

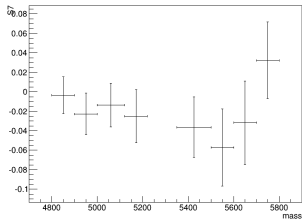


Q[0\_1-0\_98]\_S6s

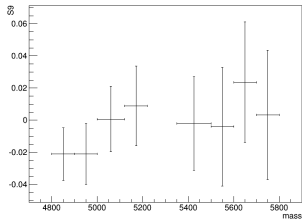


# Bck moments

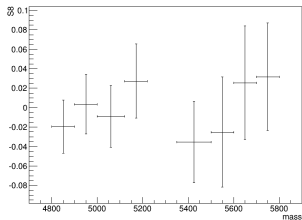
Q[0\_1-0\_98]\_S7



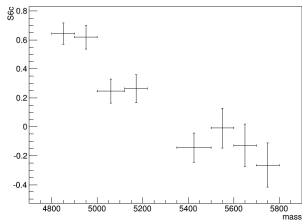
Q[0\_1-0\_98]\_S9



Q[0\_1-0\_98]\_S8



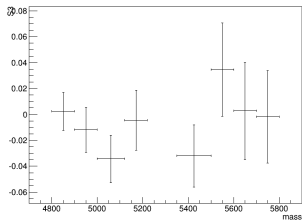
Q[0\_1-0\_98]\_S6c



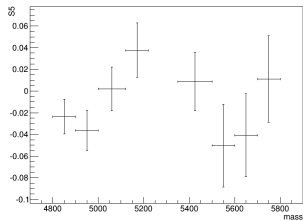


# Bck moments

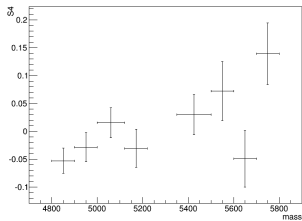
Q[1\_1-2]\_S3



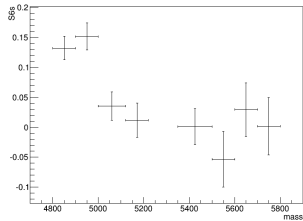
Q[1\_1-2]\_S5



Q[1\_1-2]\_S4

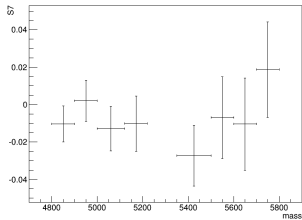


Q[1\_1-2]\_S6s

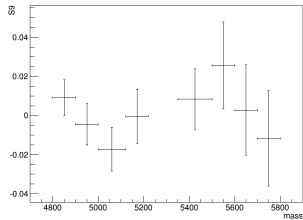


# Bck moments

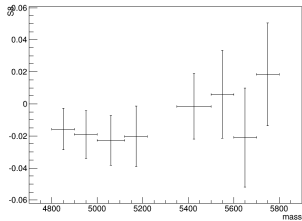
Q[2-4]\_S7



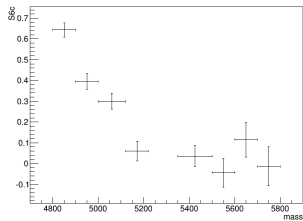
Q[2-4]\_S9



Q[2-4]\_S8

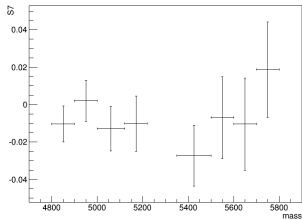


Q[2-4]\_S6c

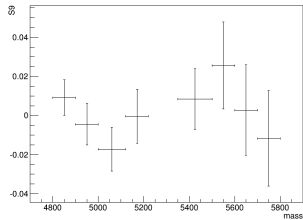


# Bck moments

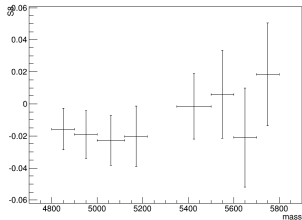
Q[2-4]\_S7



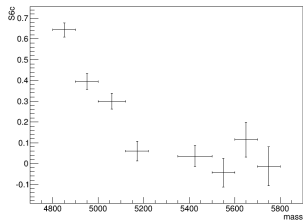
Q[2-4]\_S9



Q[2-4]\_S8

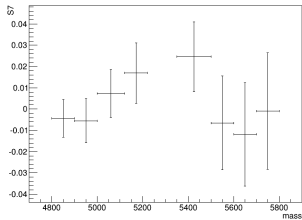


Q[2-4]\_S6c

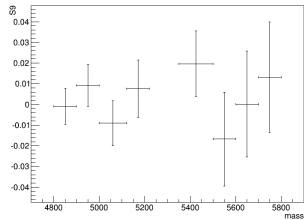


# Bck moments

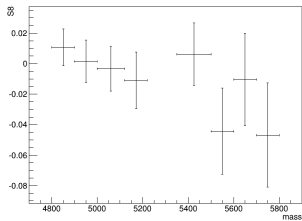
Q[4-6]\_S7



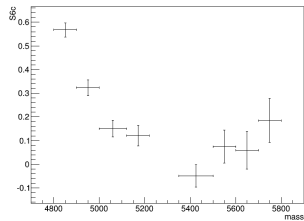
Q[4-6]\_S9



Q[4-6]\_S8

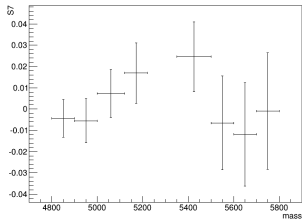


Q[4-6]\_S6c

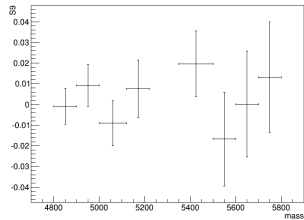


# Bck moments

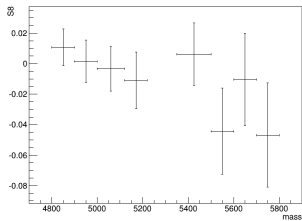
Q[4-6]\_S7



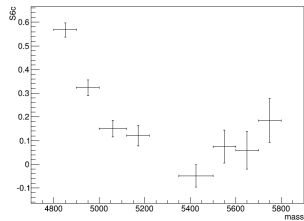
Q[4-6]\_S9



Q[4-6]\_S8

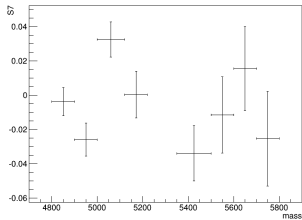


Q[4-6]\_S6c

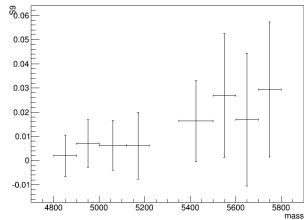


# Bck moments

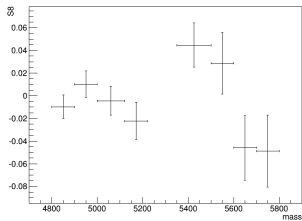
Q[6-8]\_S7



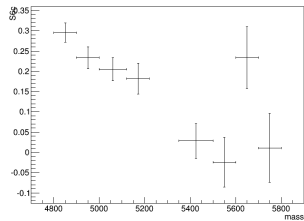
Q[6-8]\_S9



Q[6-8]\_S8

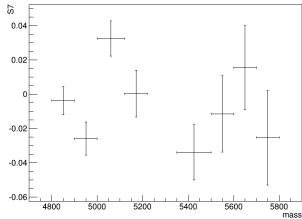


Q[6-8]\_S6c

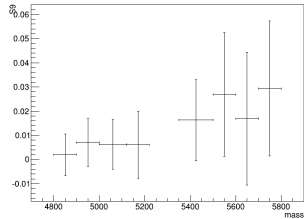


# Bck moments

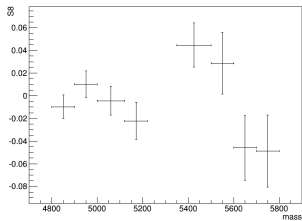
Q[6-8]\_S7



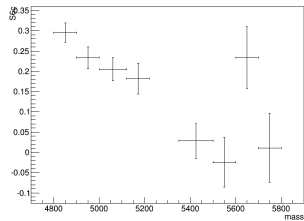
Q[6-8]\_S9



Q[6-8]\_S8

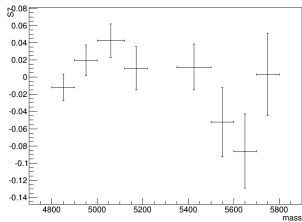


Q[6-8]\_S6c

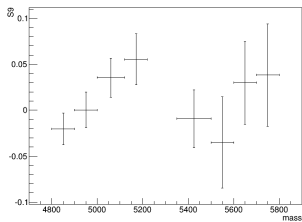


# Bck moments

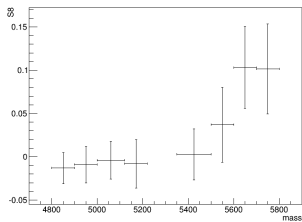
Q[11-11\_75]\_S7



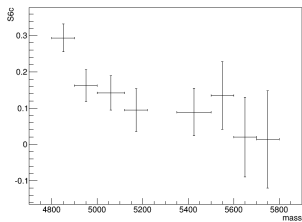
Q[11-11\_75]\_S9



Q[11-11\_75]\_S8



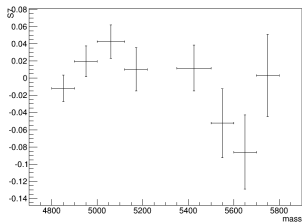
Q[11-11\_75]\_S6c



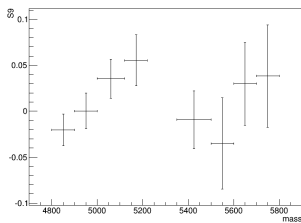


# Bck moments

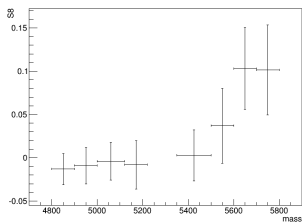
Q[11-11\_75]\_S7



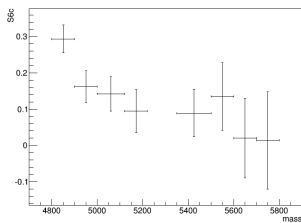
Q[11-11\_75]\_S9



Q[11-11\_75]\_S8

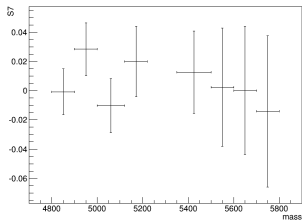


Q[11-11\_75]\_S6c

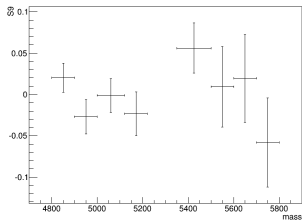


# Bck moments

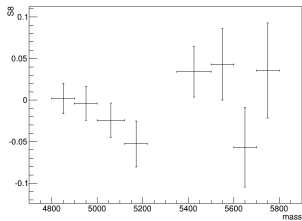
Q[11\_75-12]\_S7



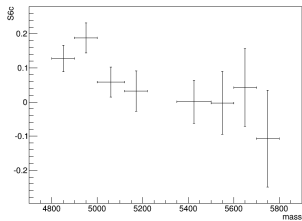
Q[11\_75-12]\_S9



Q[11\_75-12]\_S8

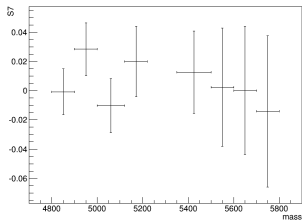


Q[11\_75-12]\_S6c

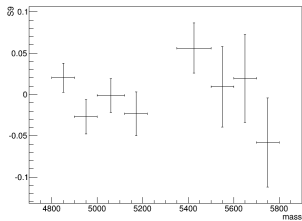


# Bck moments

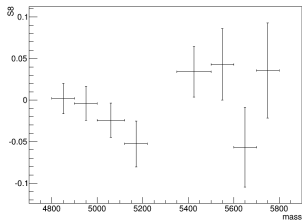
Q[11\_75-12]\_S7



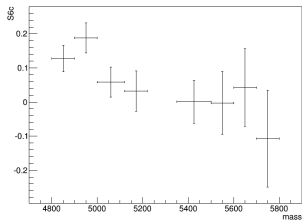
Q[11\_75-12]\_S9



Q[11\_75-12]\_S8

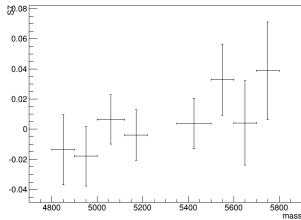


Q[11\_75-12]\_S6c

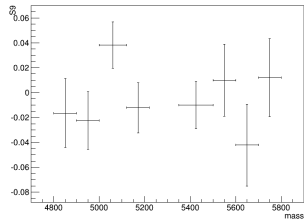


# Bck moments

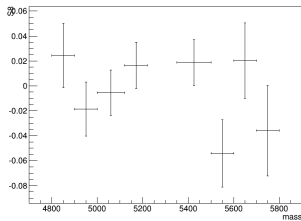
Q[15-17]\_S7



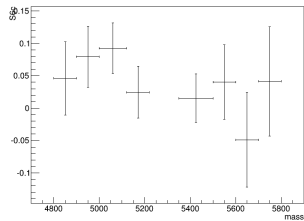
Q[15-17]\_S9



Q[15-17]\_S8

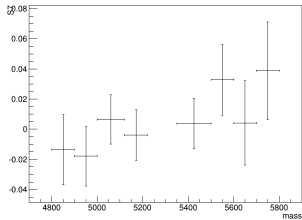


Q[15-17]\_S6c

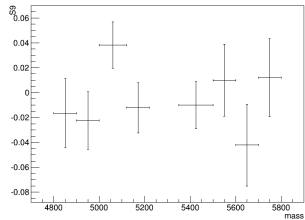


# Bck moments

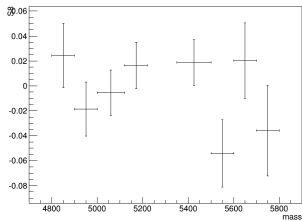
Q[15-17]\_S7



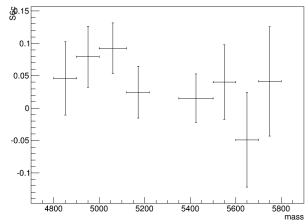
Q[15-17]\_S9



Q[15-17]\_S8

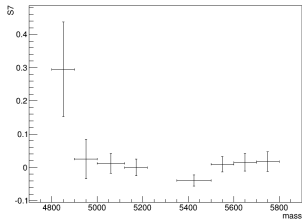


Q[15-17]\_S6c

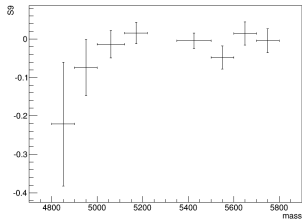


# Bck moments

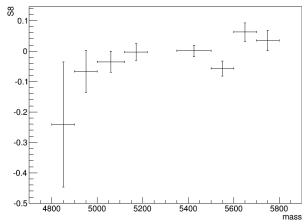
Q[17-19]\_S7



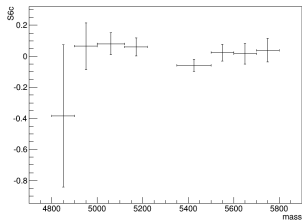
Q[17-19]\_S9



Q[17-19]\_S8

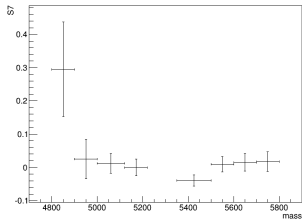


Q[17-19]\_S6c

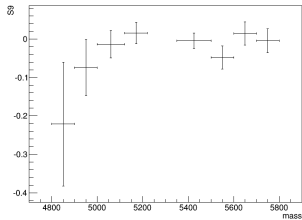


# Bck moments

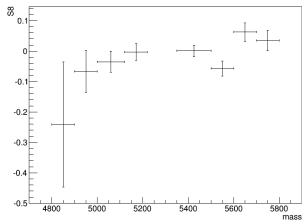
Q[17-19\_S7]



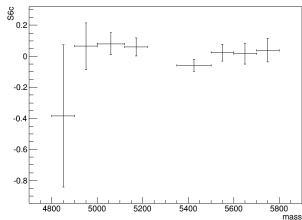
Q[17-19\_S9]



Q[17-19\_S8]



Q[17-19\_S6c]



# x-check

- Made a x check of  $\tau \rightarrow 3\mu$  in binning the classifiers.
- Prepared 2 binning(increasing the number of bins).
- My algorithm told me that the limit should stay the same.
- After doing fits etc. the limite stayed where it should have :)