Angular distribution of background

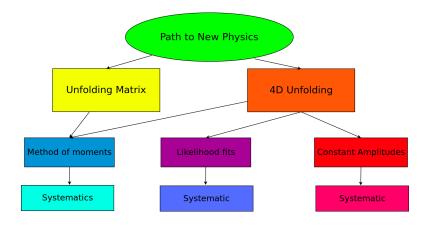
Marcin Chrząszcz^{1,2}, Nicola Serra¹



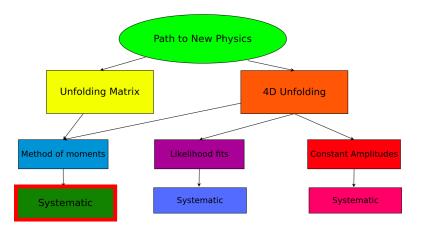
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May 25, 2014

Quo vadis $B^0 \rightarrow K^* \mu \mu$?

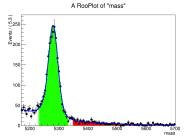






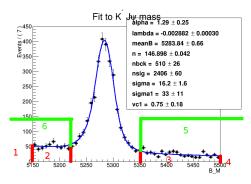


- Each method assumes that background angular distribution is the same in the red and green region.
- This might not be necessary the true.
- Let's test this using method of moments.

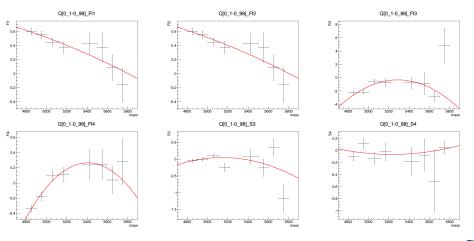




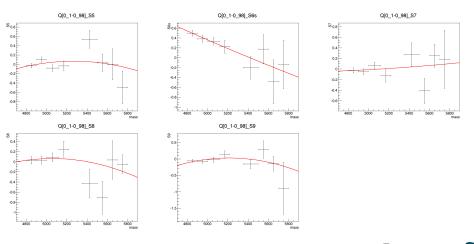
- Divided mass regions in different q² bins.
- To each calculate the S_x components and see if there is a clear trend.
- Try fitting and seeing the impact in the signal window.

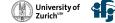


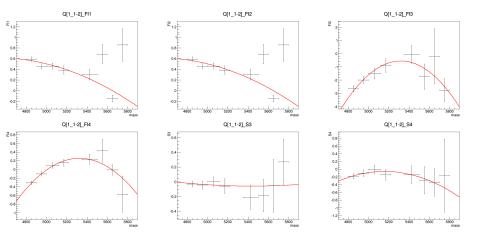




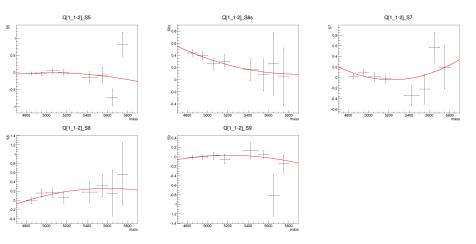




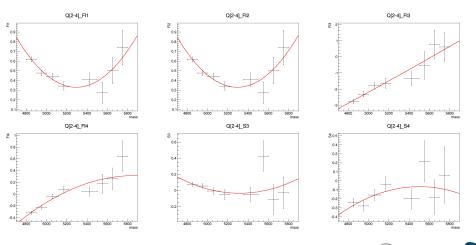






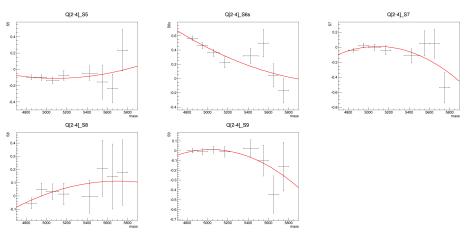




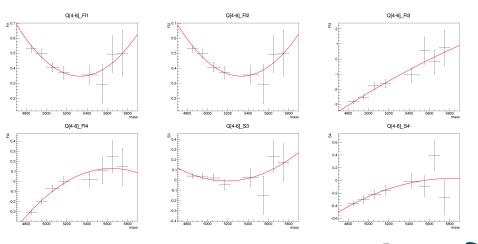


Marcin Chrząszcz

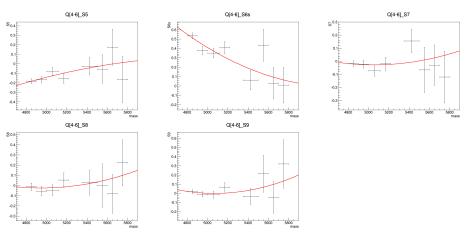




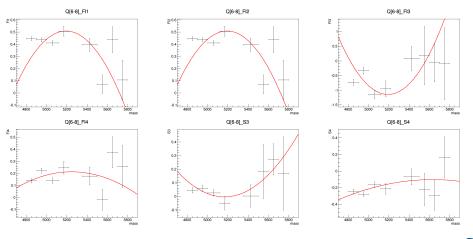




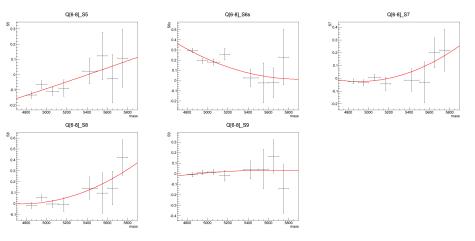




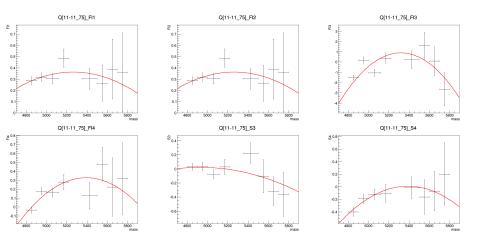




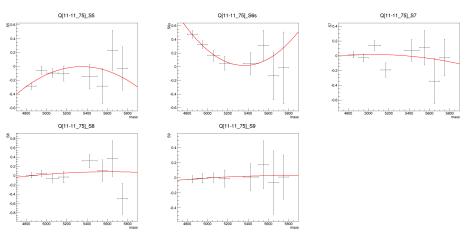




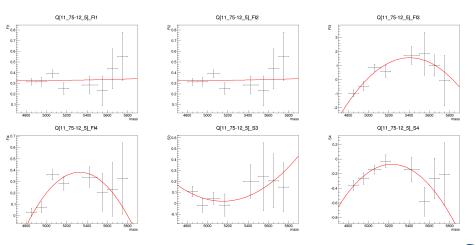




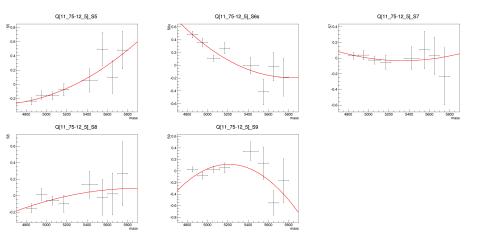




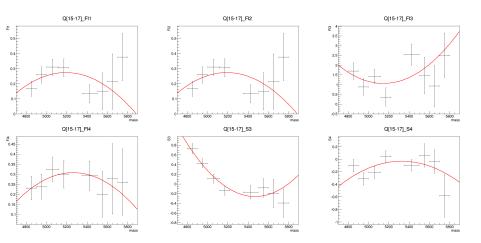




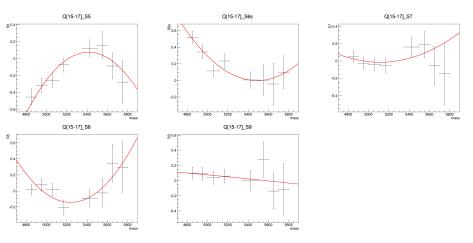




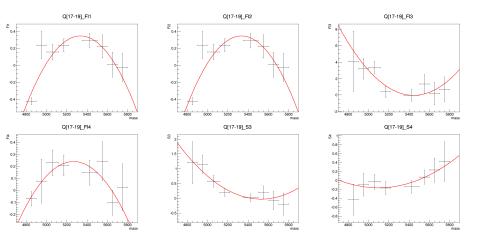














- There is small dependence on background and mass.
- For MM easy to assign systematic to it.
- Fits need some more thinking.

