

More Acceptance Plots(II)

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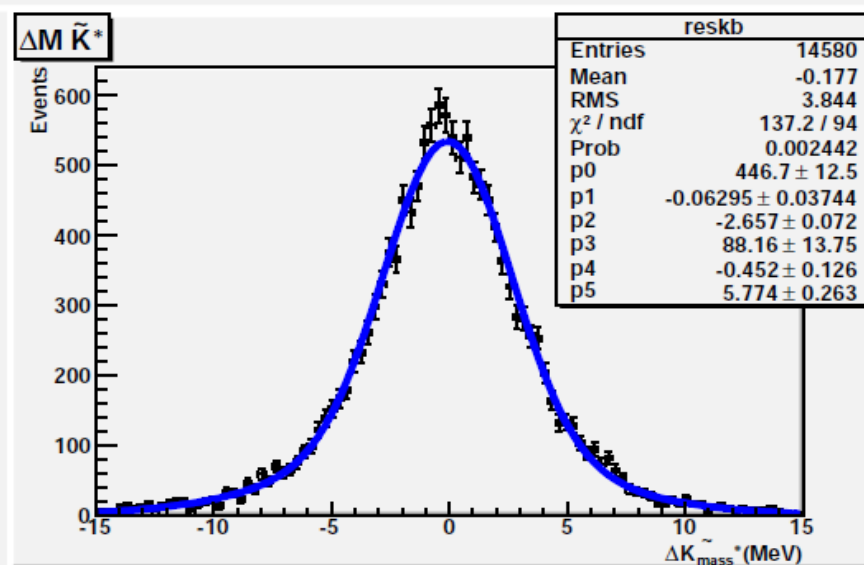
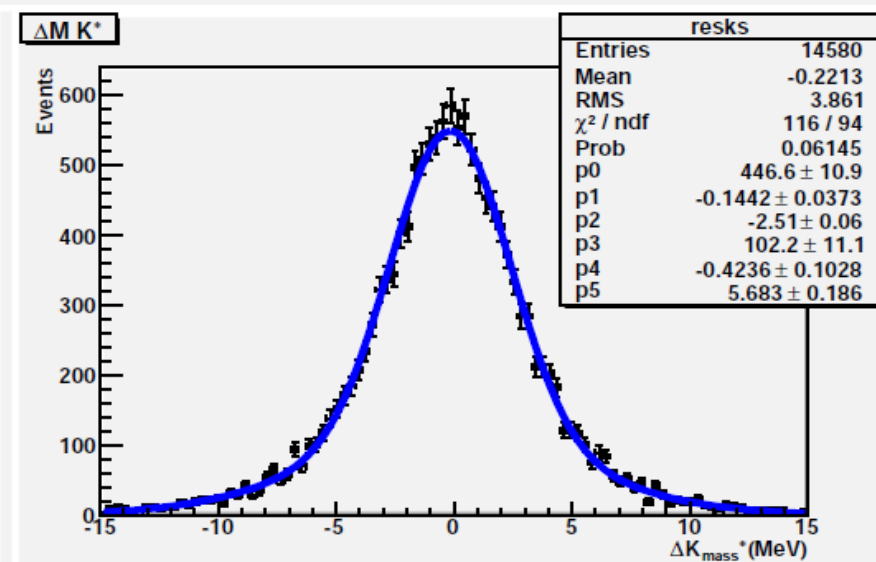
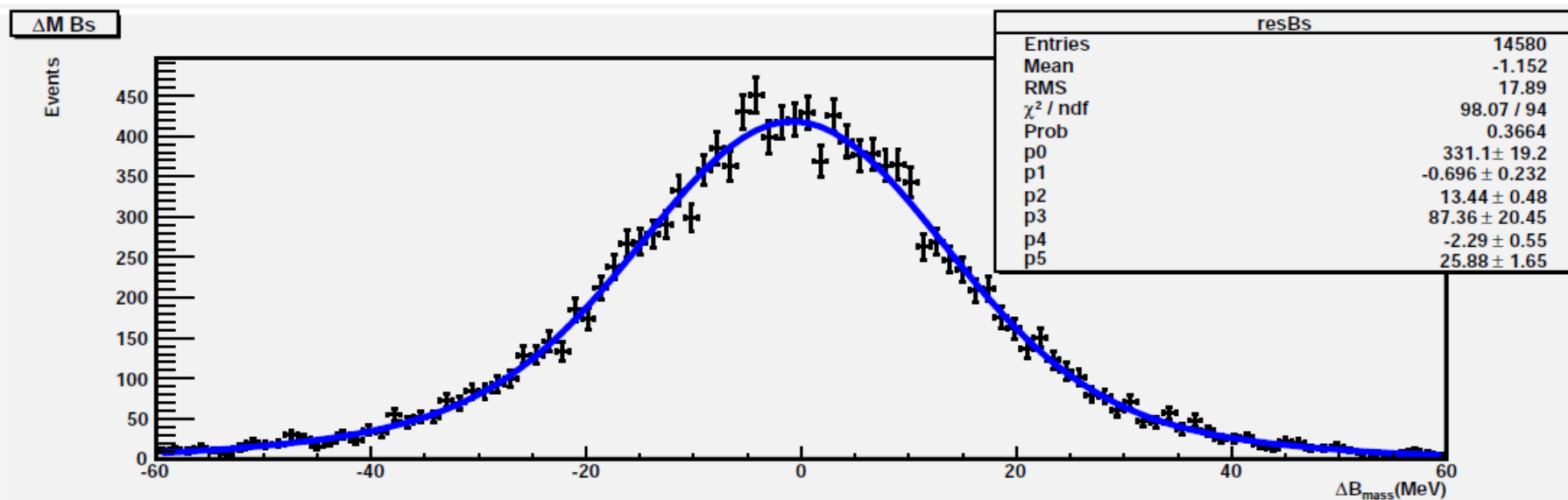
Mass Resolution

- 14 K Signal selected events 306 k MC events
- Double gaussian structure

$$Res(mass) = p_0 * exp(-0.5 * (\frac{mass - p_1}{p_2})^2) + p_3 * exp(-0.5 * (\frac{mass - p_4}{p_5})^2)$$

- Fits on the resolution of K^* and B_s

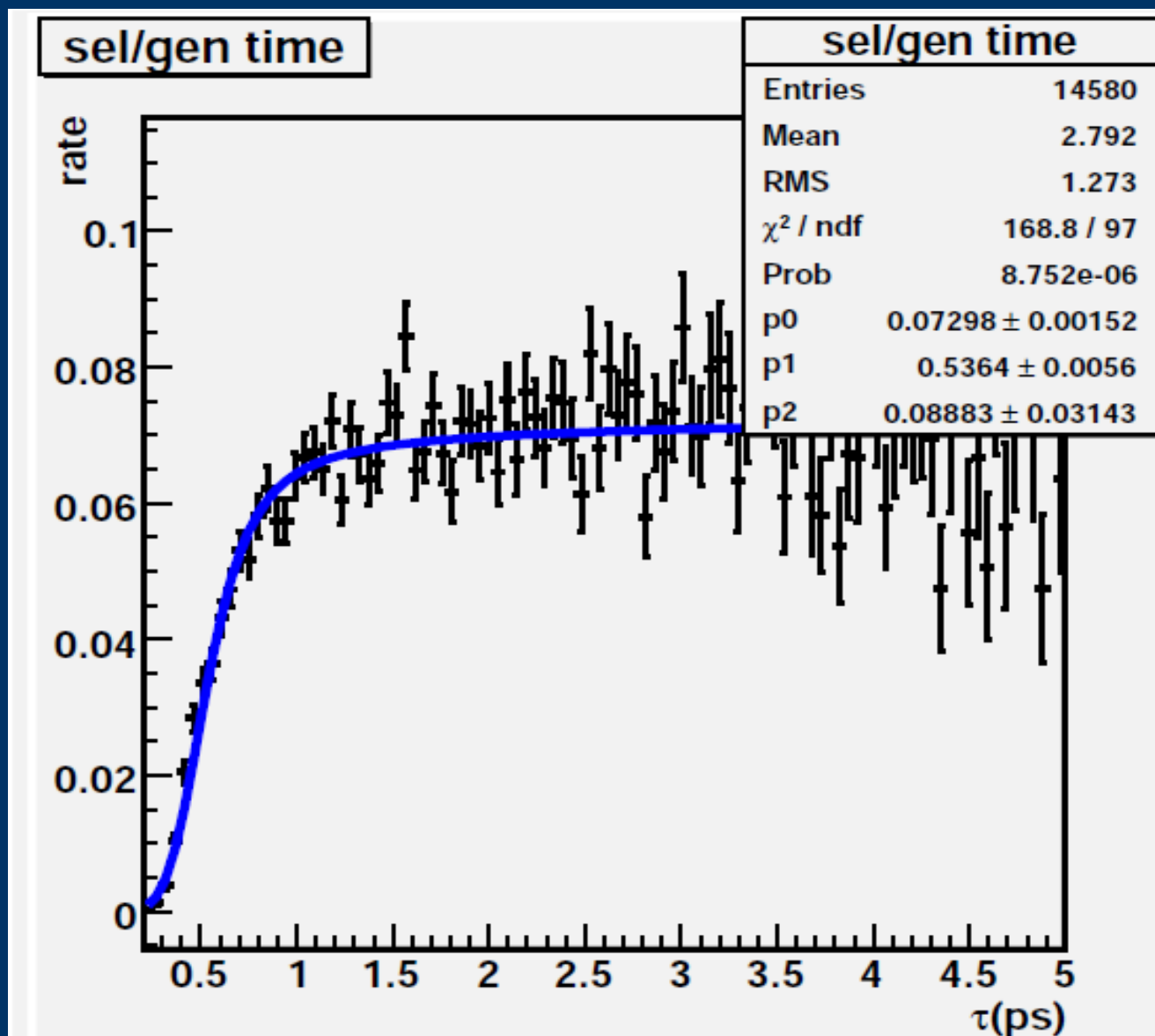
Mass Resolution



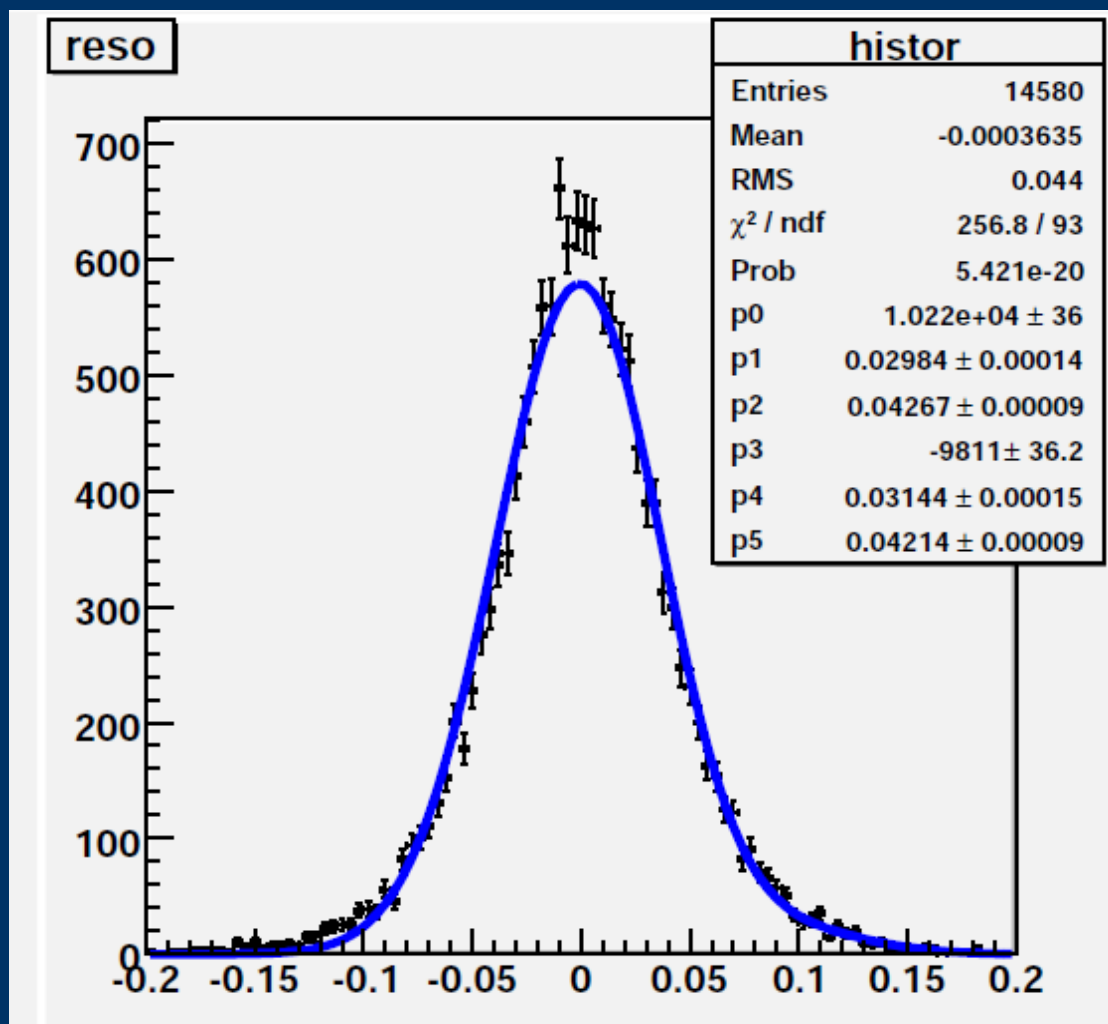
Mass Resolution

- Bs mass resolution works reasonably with a double gaussian
- K^* and anti K^* do not work so well.
- Other distributions will be considered.

Time acceptance



Time resolution



Time acceptance and resolution

- New acceptance model
- Improvement but still not enough

$$Acc_{time}(t) = p_0 \frac{t^5}{p_1^5 + t^5 + p_2 * t^4}$$

- Resolution model= Not a double gaussian

Particle momentum acceptance

- Lots of plots! (total momentum and P_t)
- They seem to share a same lineshape
- Lab frame
- Possibly more interesting in Rest Frame.

