



Beam Paper Update

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How does this change our data-MC comparison?

Block	$S3_{MC}$	$S4_{MC}$	R_{MC}	$S3_{data}$	$S4_{data}$	R_{data}
0	56590	2777	20.4	1983 ± 9	109 ± 5	18.2 ± 0.8
1	67273	6781	9.9	1656 ± 6	141 ± 5	11.8 ± 0.4
2	60653	7934	7.6	1325 ± 5	119 ± 2	11.1 ± 0.2
3	35781	3381	10.6	899 ± 6	29.2 ± 0.8	30.8 ± 0.9
4	104318	2005	52.0	136.3 ± 0.5	9 ± 6	15 ± 11

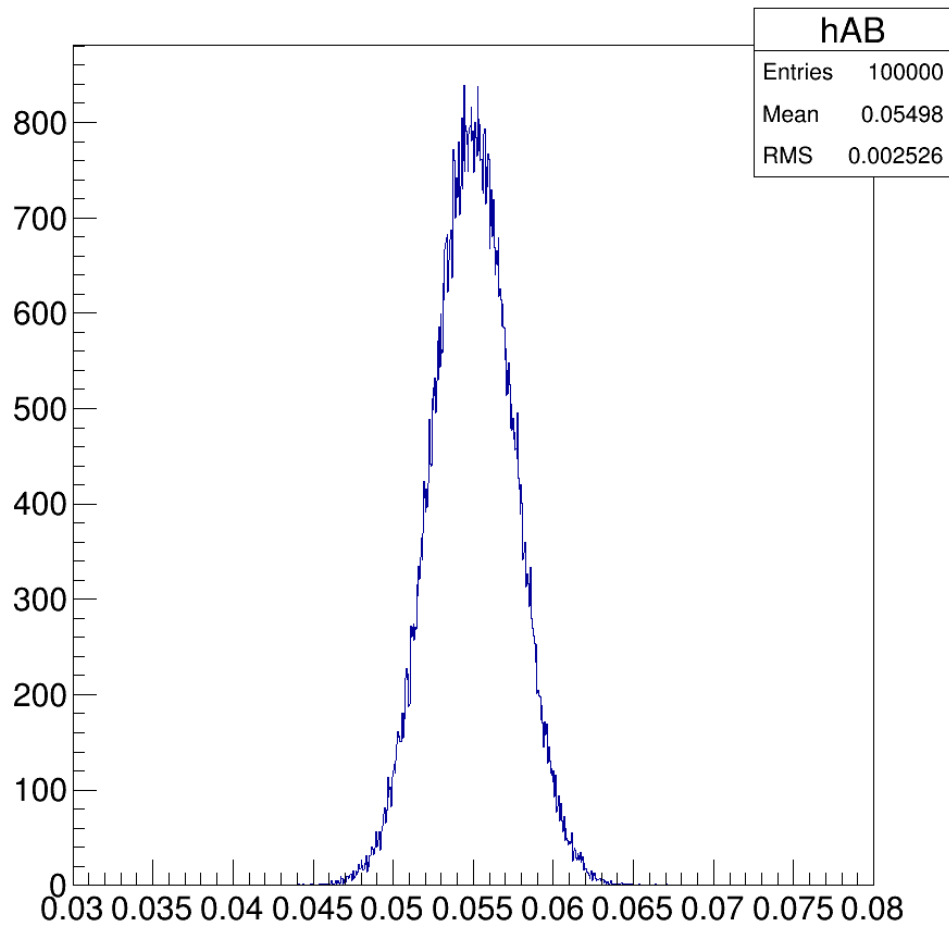
- 0 and 1 block ratios look a lot closer to the data
- Still work to be done to get greater consistency on other samples

Errors

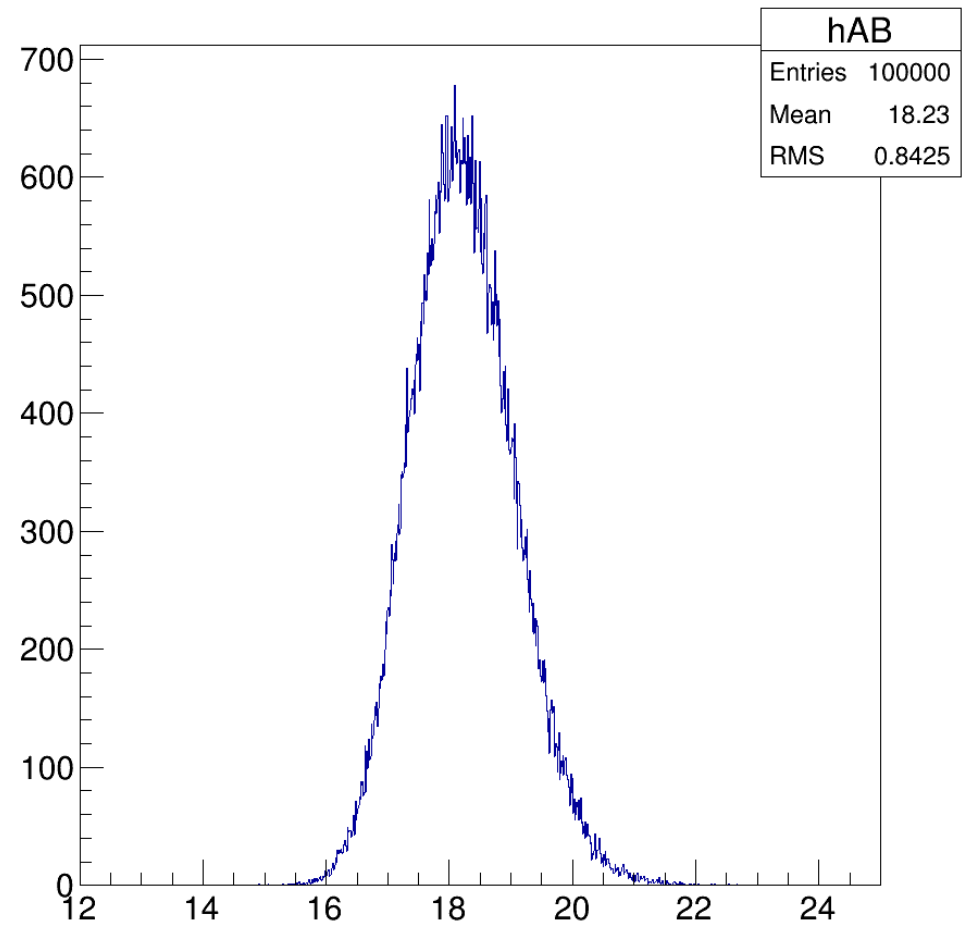
- How many sigma away from each other are S3/S4 in data and MC
- A different number than S4/S3 are
- Not all of these profiles are gaussian...

0 Blocks

S4/S3 ratio, 0 Blocks

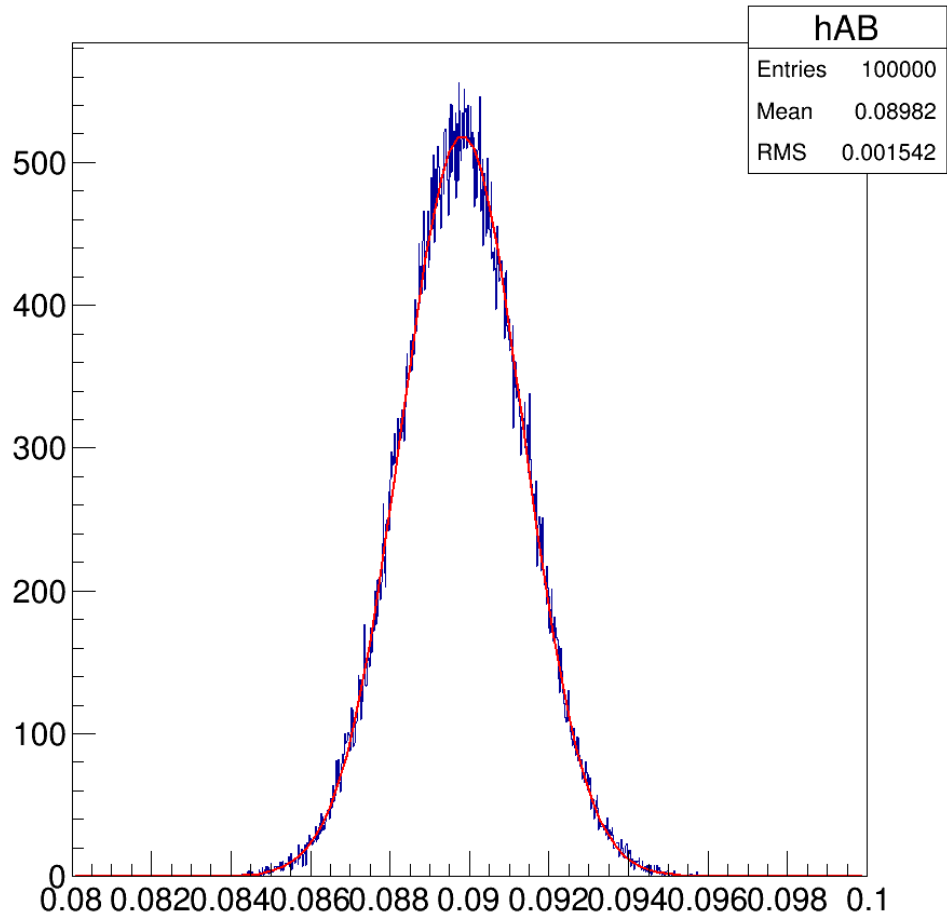


S3/S4 ratio, 0 Blocks

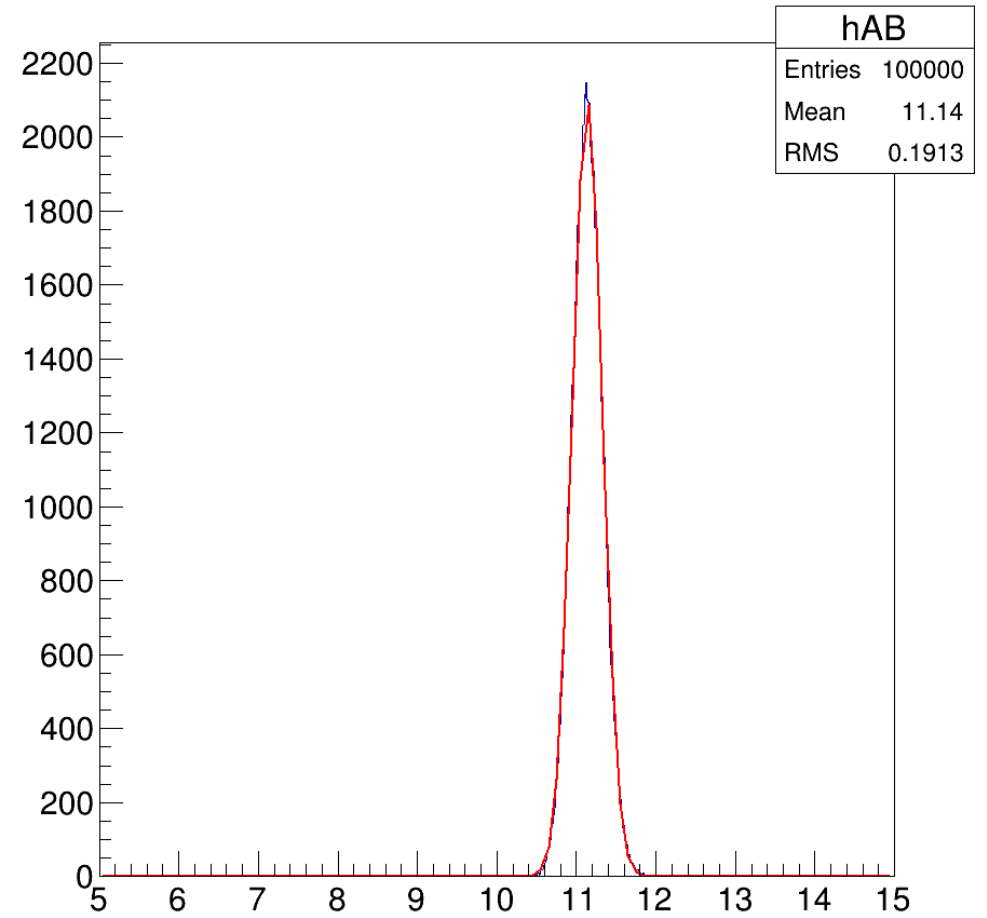


1 Block

S4/S3 ratio, 1 Blocks

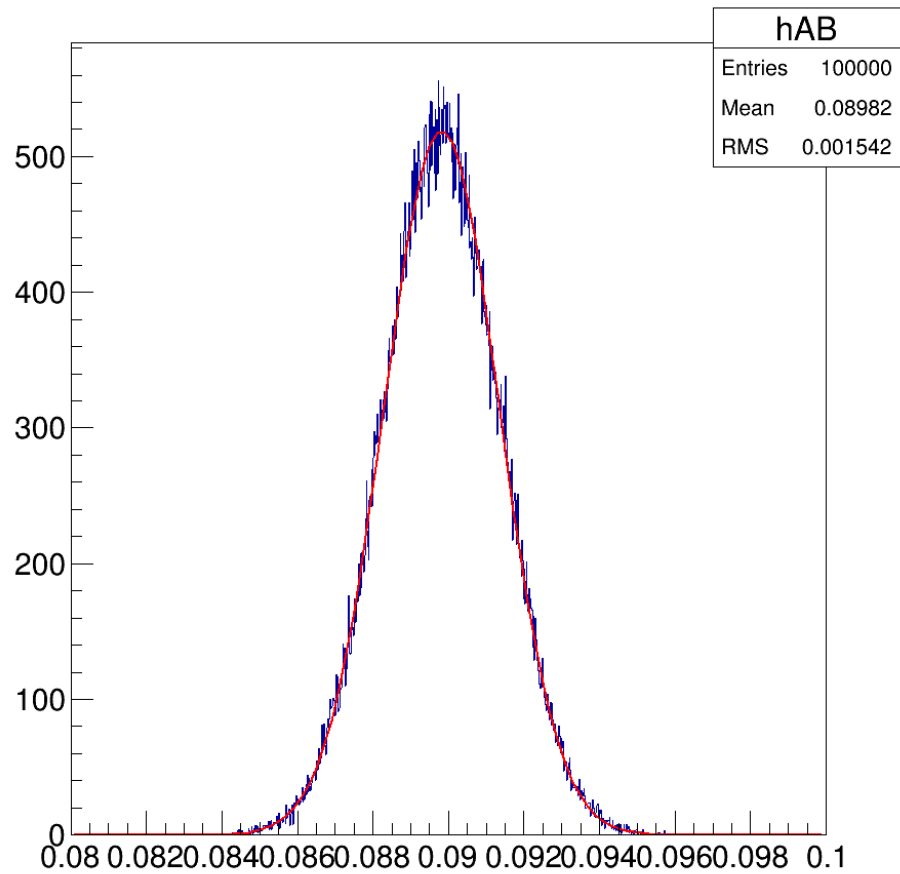


S3/S4 ratio, 1 Blocks

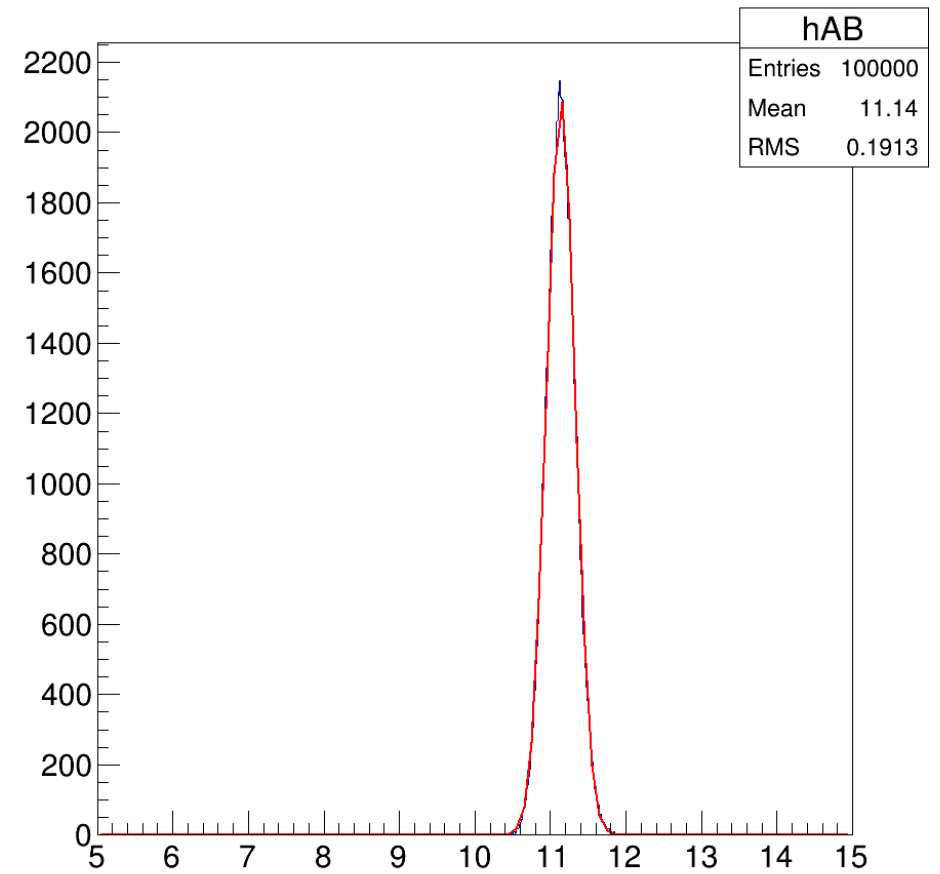


2 Blocks

S4/S3 ratio, 2 Blocks

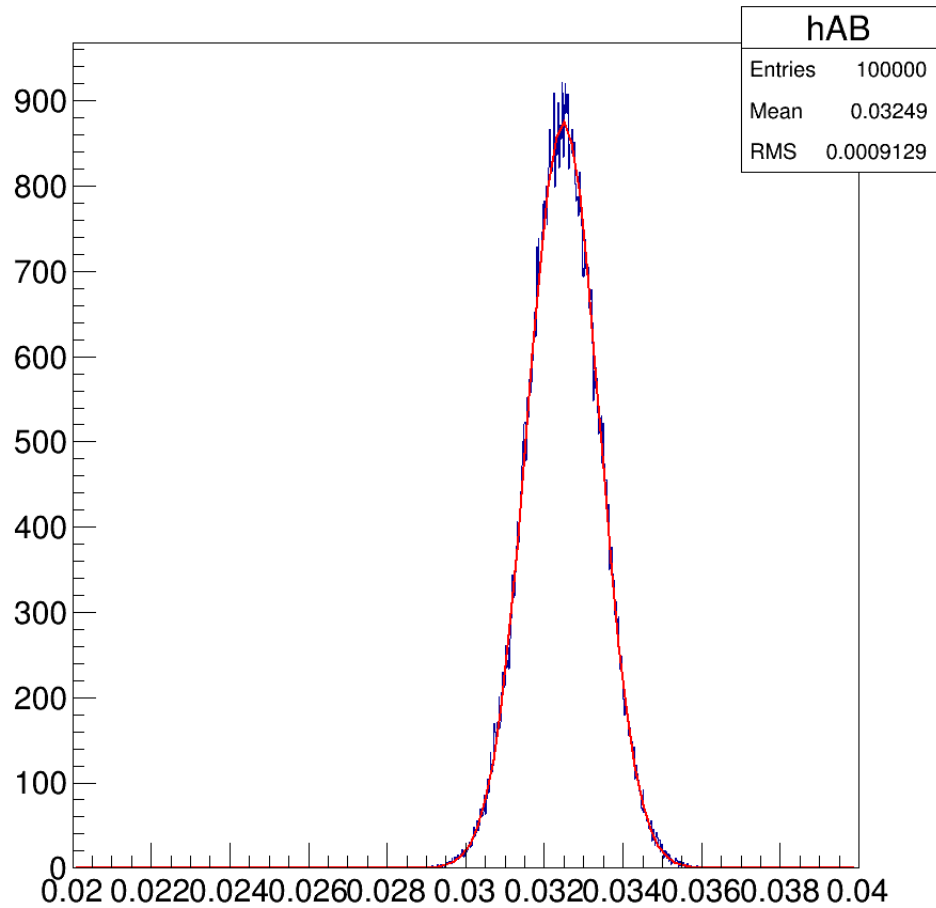


S3/S4 ratio, 2 Blocks

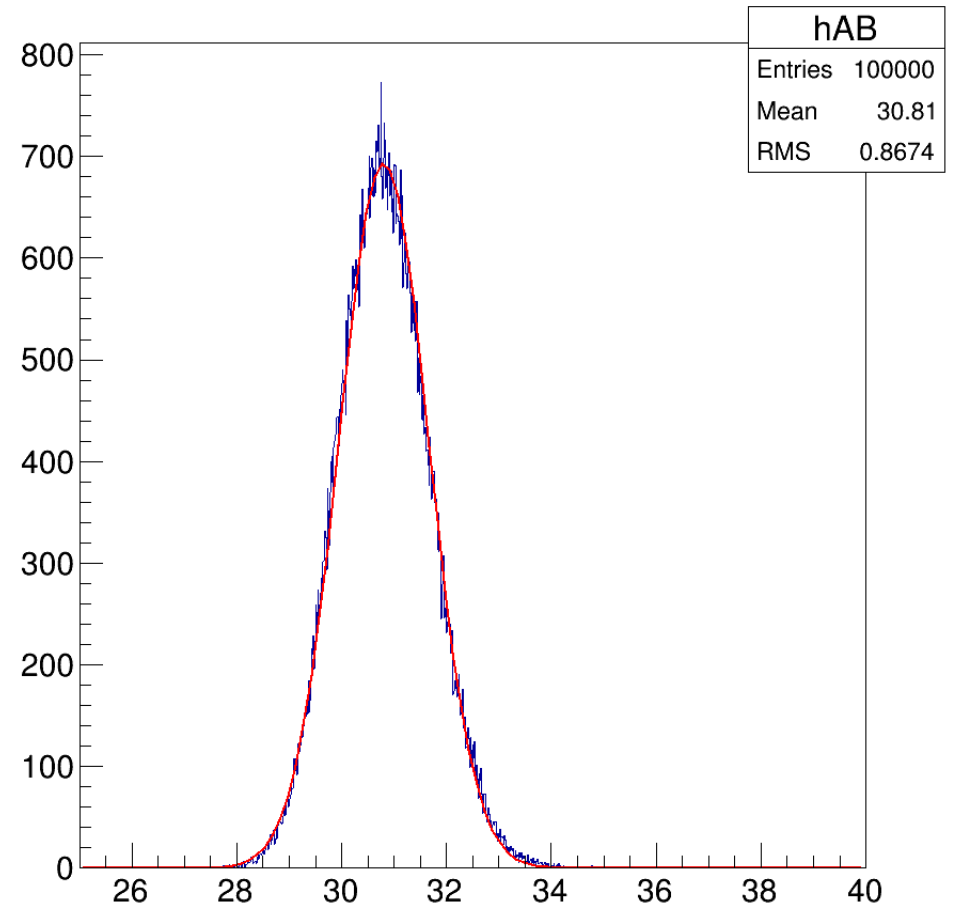


3 Blocks

S4/S3 ratio, 3 Blocks

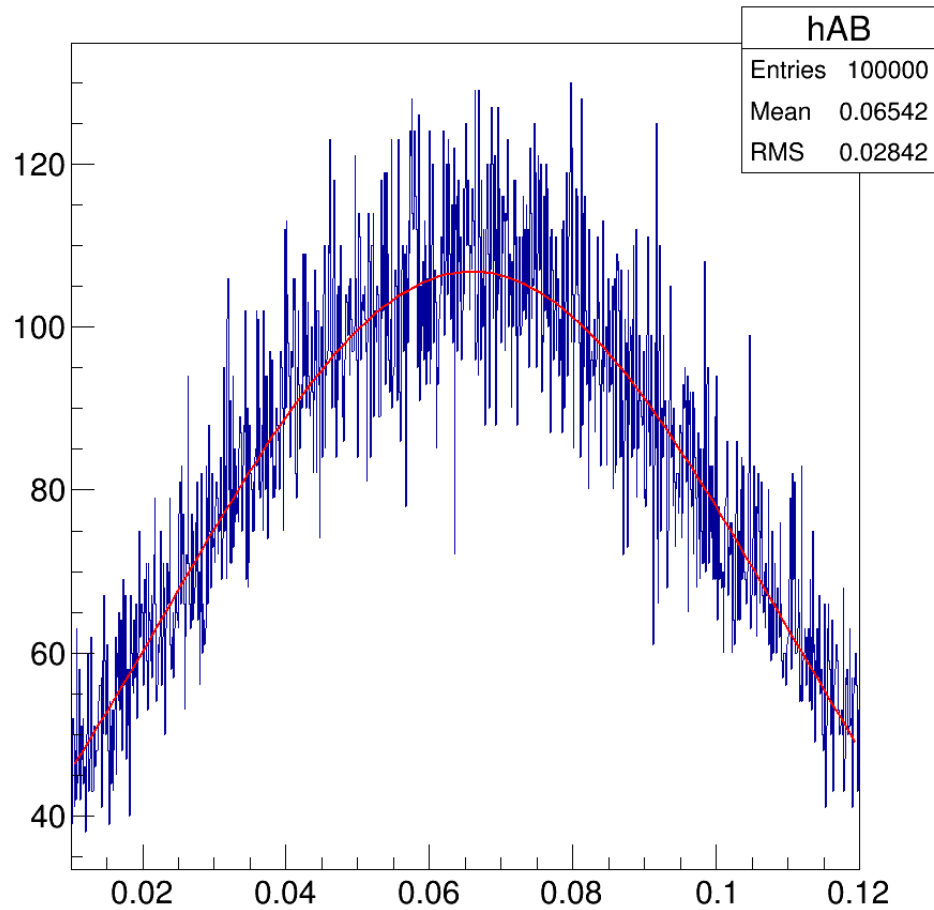


S3/S4 ratio, 3 Blocks

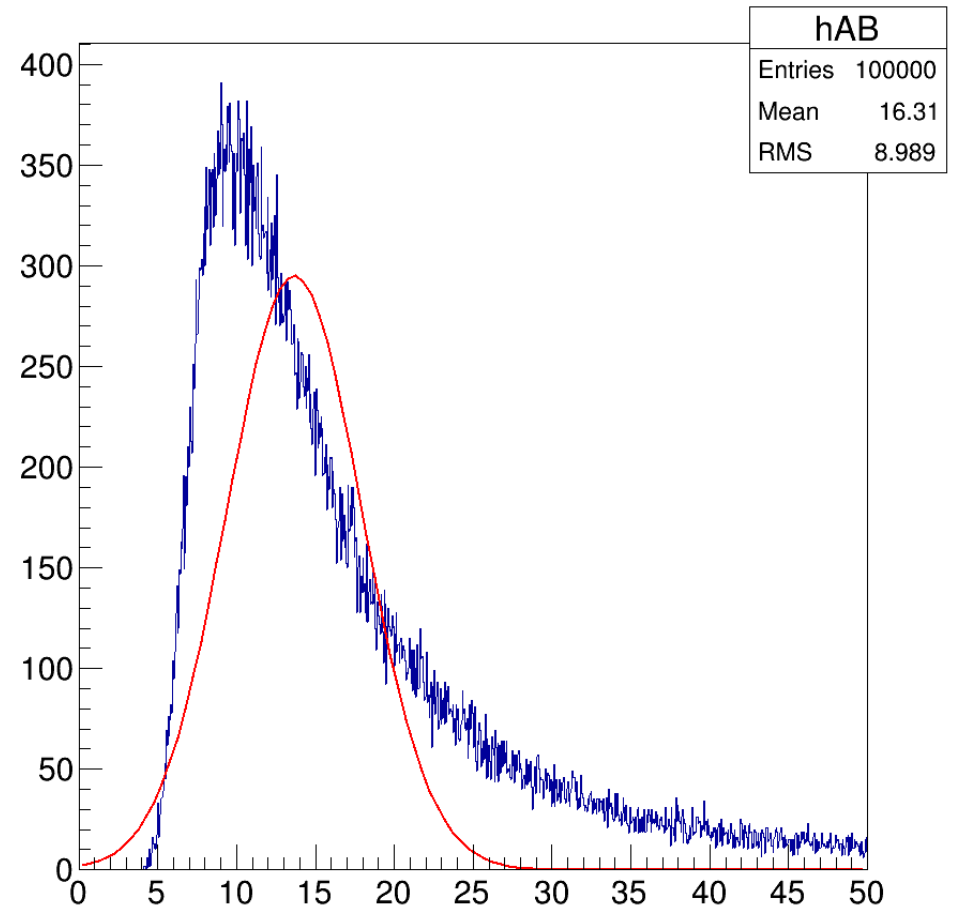


4 Blocks

S4/S3 ratio, 4 Blocks



S3/S4 ratio, 4 Blocks



Summary

- Not all these ratios are gaussian
- We should always give our ratio in the paper as $S4/S3$ to be on the safe side