

# Summary

I made two big fixes since last week:

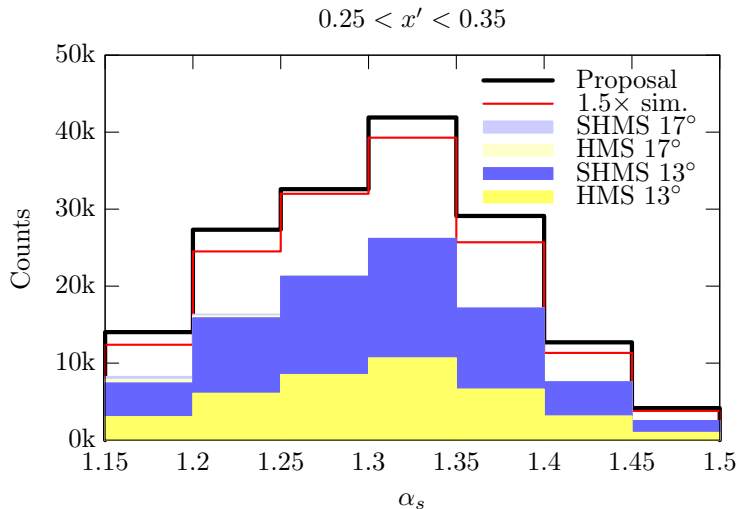
- 1 Accurate  $\phi$  acceptance for the spectrometers
- 2 Added high- $x'$  events from low- $x'$  kinematics to the rate estimate (and vice versa).

To debug remaining differences between my simulation's rate estimate and the LAD proposal, I tried to reproduce the proposal calculation verbatim:

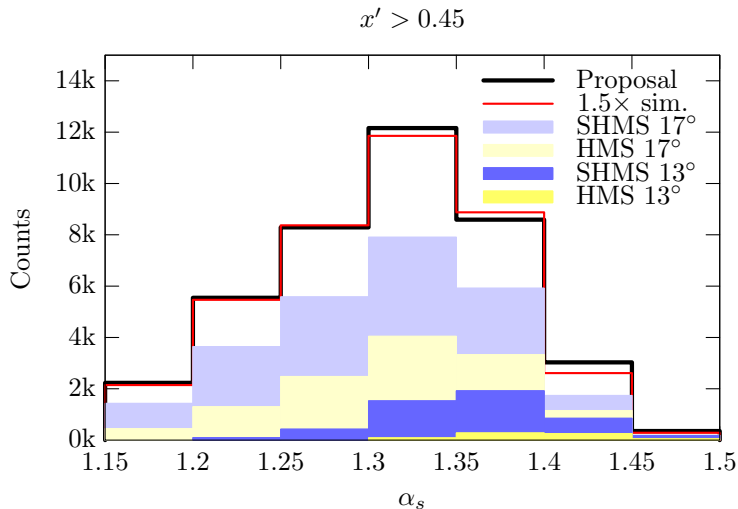
- Two-dimensional calculation
- Original LAD bar positions

I reproduce the shape of the spectra well, but my simulation still has a lower rate by a factor of 1.5.

# Low $x'$ events, binned by $\alpha_s$



# High $x'$ events, binned by $\alpha_s$



# Conclusions

- There must still be a bug or a misunderstanding remaining.
- 2d vs. 3d simulation makes almost no difference in rates.