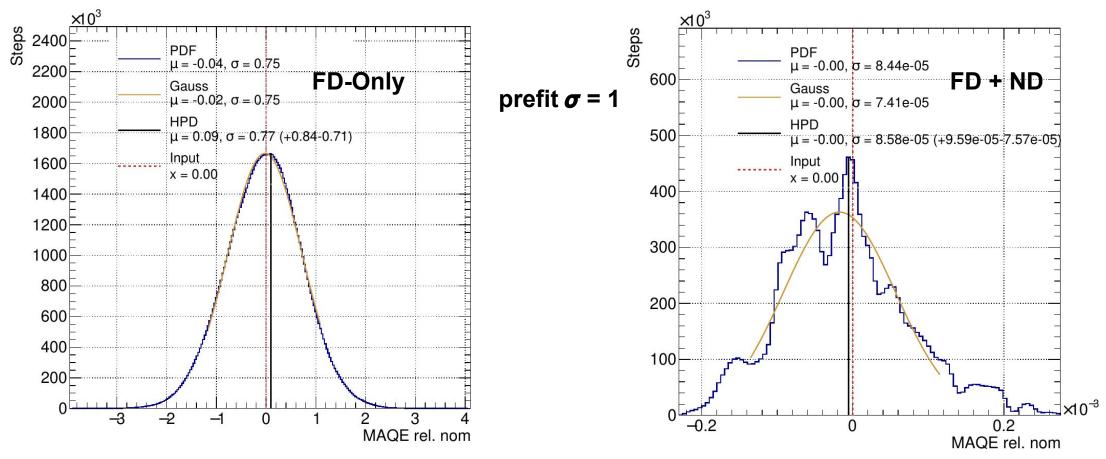
Over-constraint Problem

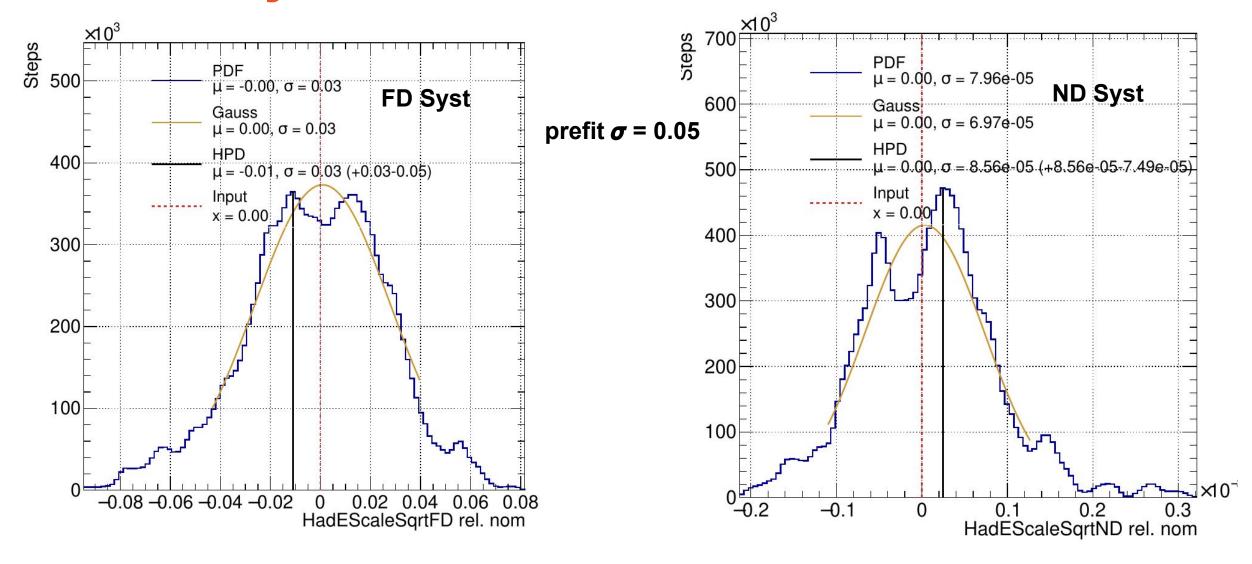
Liban Warsame for the MaCh3 Group

MaQE Posterior



- Posterior/Prior ~0.0001 upon addition of ND samples
- Irregular shape due to bad-mixing

Detector Systematic Posterior



Thoughts/Plans

- TDR analysis fixed issue by creating covariance matrix from ND detector systematics
 - We could try something similar
 - How did this have an effect on constraint on MaQE?
- Tried fitting to asimov data + poisson throw in each bin
 - Basically did nothing stat error is far too small
 - Converged to higher LogL but posteriors widths are unchanged
- New idea don't fix it...
 - Perform fits which show where model is lacking
 - Add duplicate MaQE systematic at ND only
 - Show degeneracy at ND is necessary.