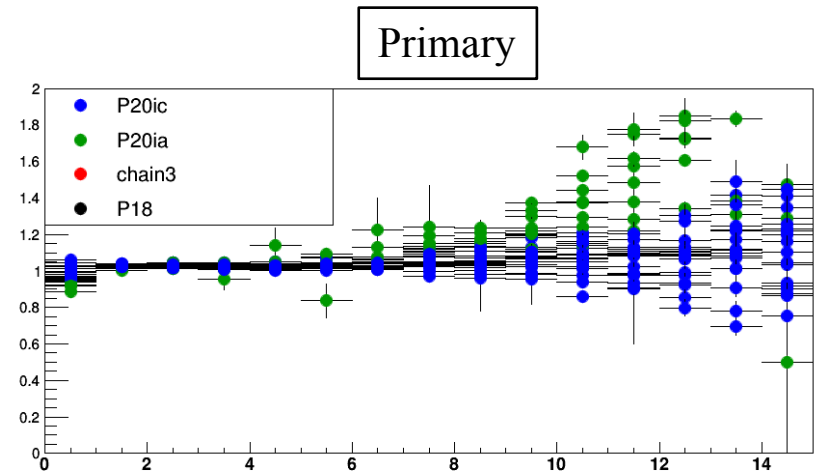
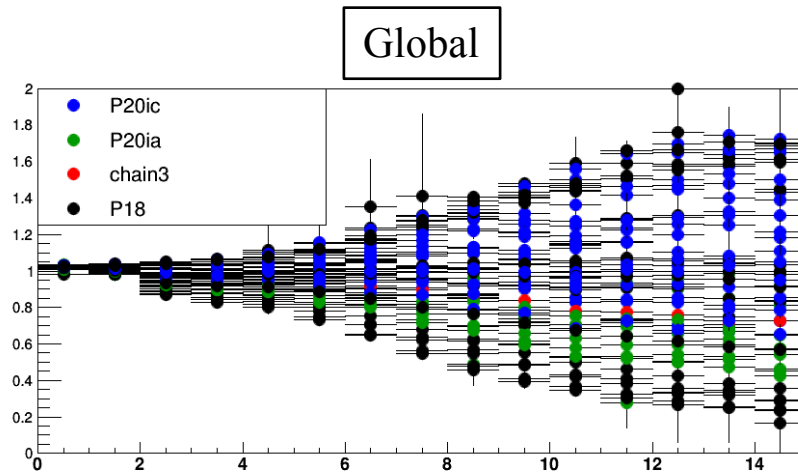


Run 17 BEMC Calibration

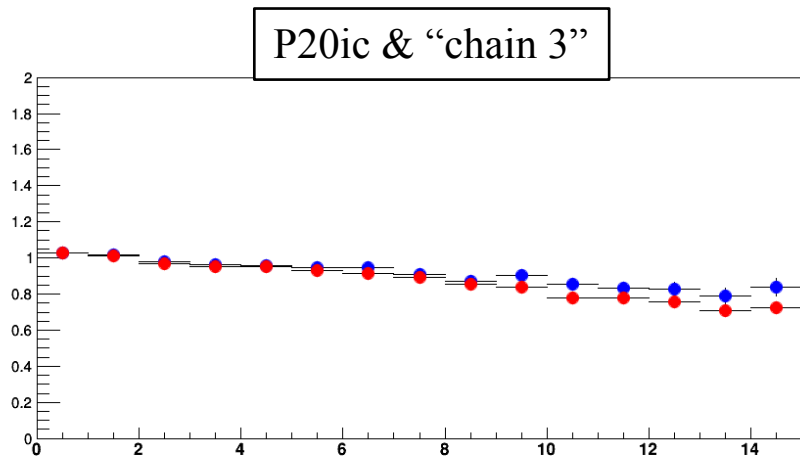
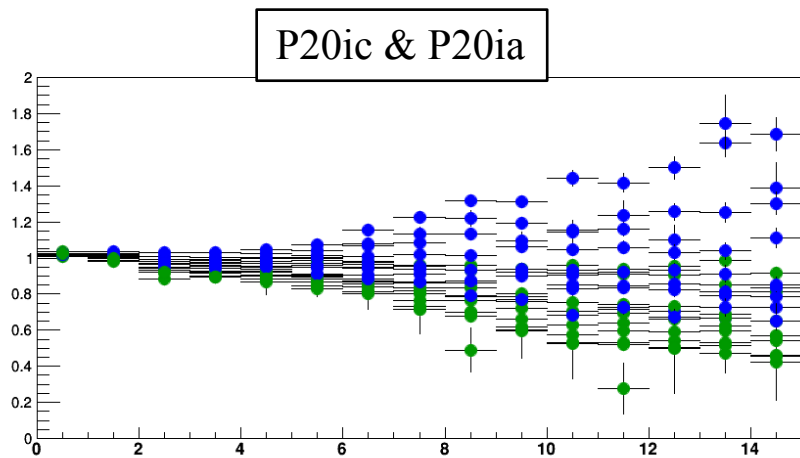
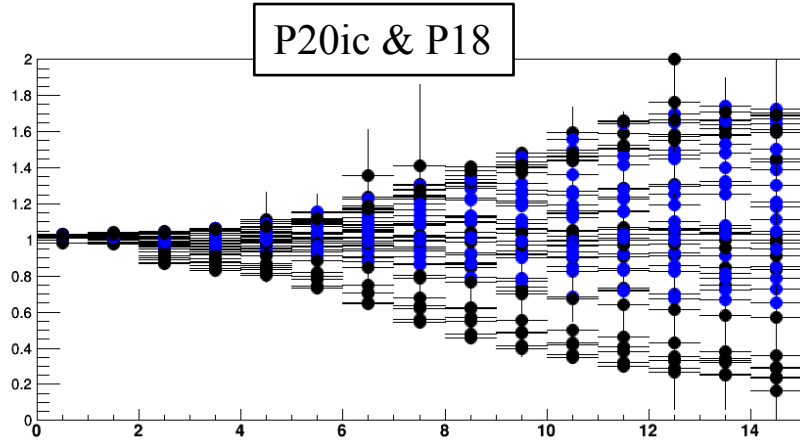
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Temple Univ.



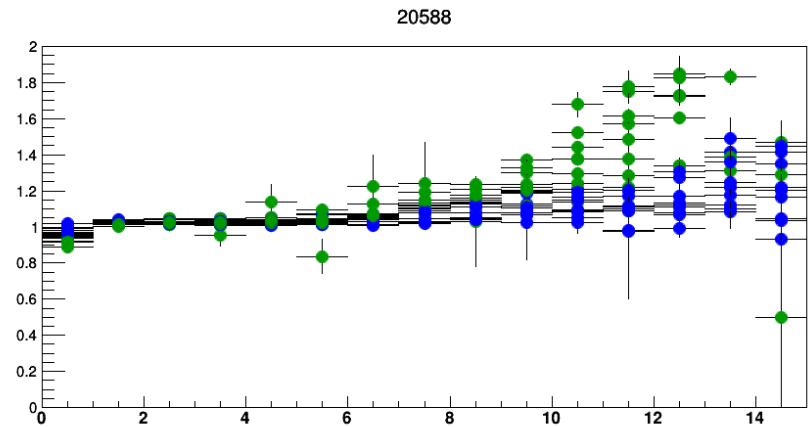
Charge ratio comparison



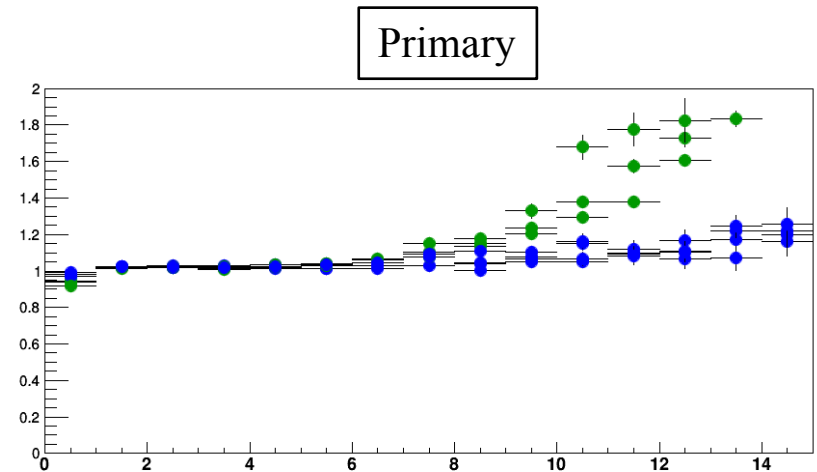
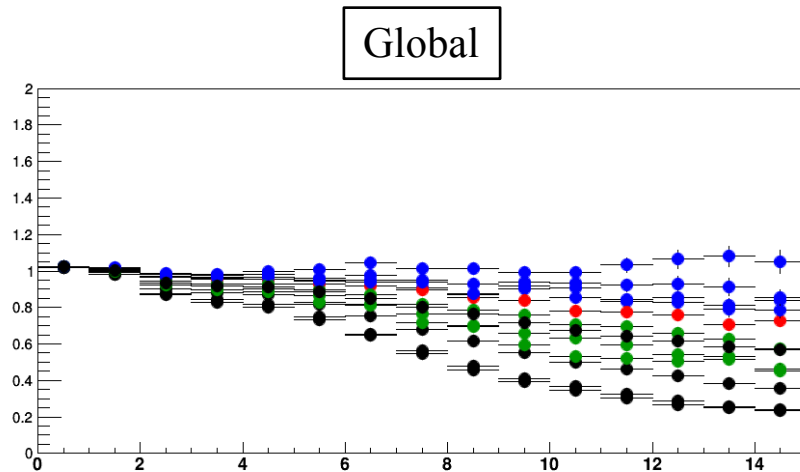
- Comparison between 4 different productions
 - **P20ic**: Most recent production (test sample of 48 runs, $3 \text{ runs/fills} \times 15 + 3$)
 - **P20ia**: Incorrect gridleak configuration
 - **Chain 3**: “test 3” sample – identical to P20ic w/ different runlist
 - **P18**: Initial production
- The average trend of P20ic seems to be where we want it to be although it has a much larger spread.
- The discrepancy between global and primary is not as dramatic as P20ia



- Fill list matched comparison



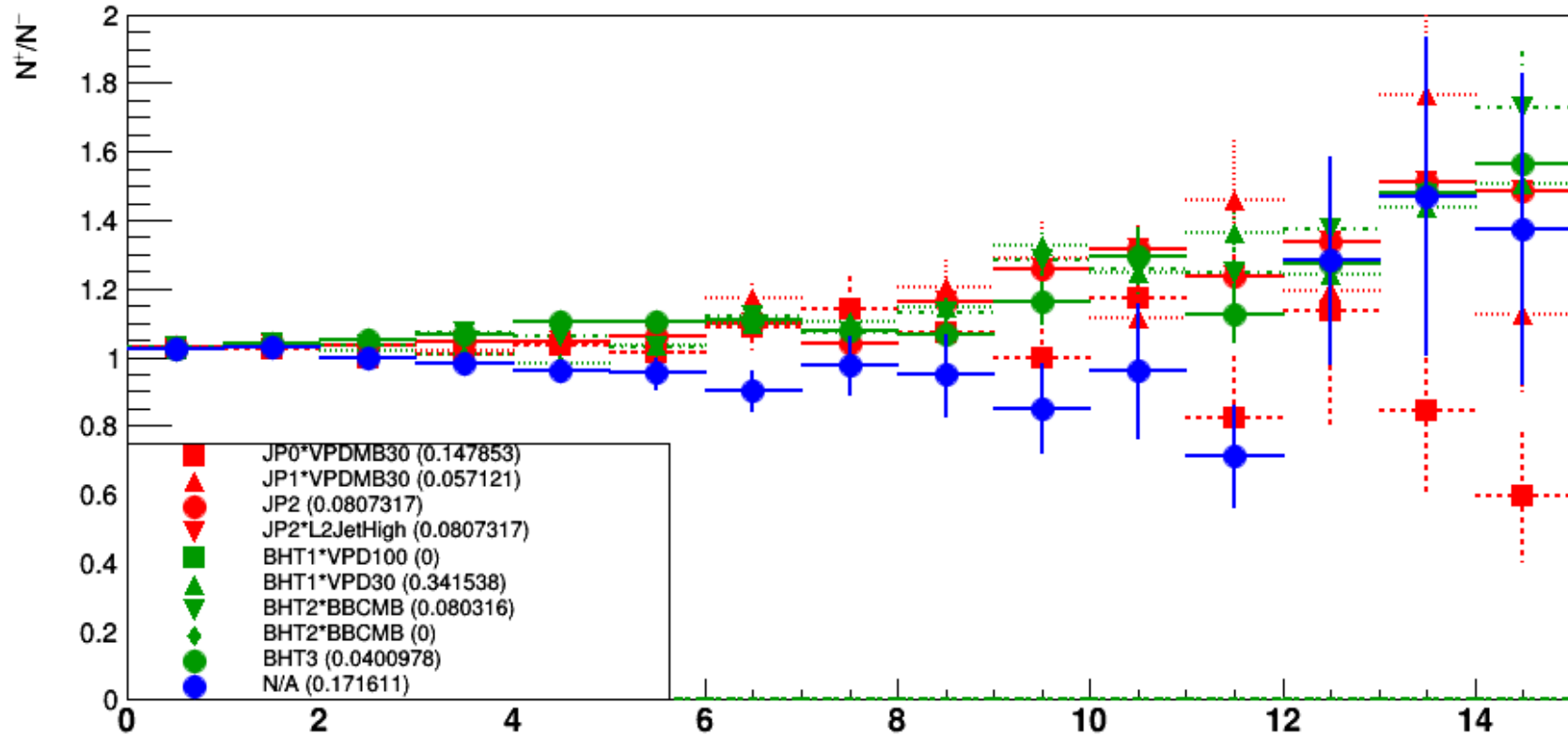
Fills used in TPC calibration



- Comparison between fills that were used for TPC calibration.
 - Optimal high- p_T behavior seen with primary tracks with P20ia.
 - Good behaviors in terms of the trend and spread with global.

Trigger

P1: Fill 20550



- Trigger dependence in charge ratio relieved greatly.
 - All fills: https://drupal.star.bnl.gov/STAR/system/files/trigger_1.pdf

Summary

- A sample of P20ic has been tested.
 - Improvement in charge ratio in high- p_T
 - Somewhat larger spread in the ratio (global) in comparison to P20ia.
 - Optimal behavior seen with the fills used in TPC calibration.
 - Trigger dependence has been greatly relieved.