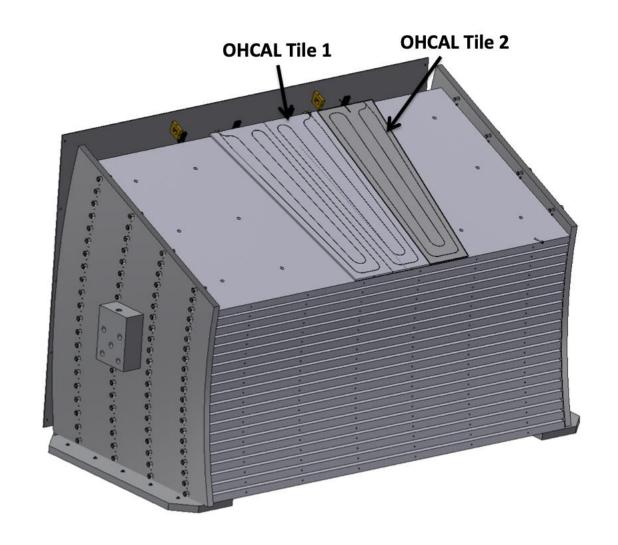
BHCal Prototype Planning

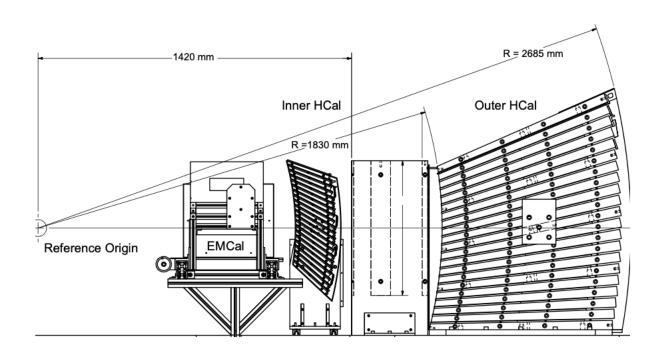
sPHENIX Prototype

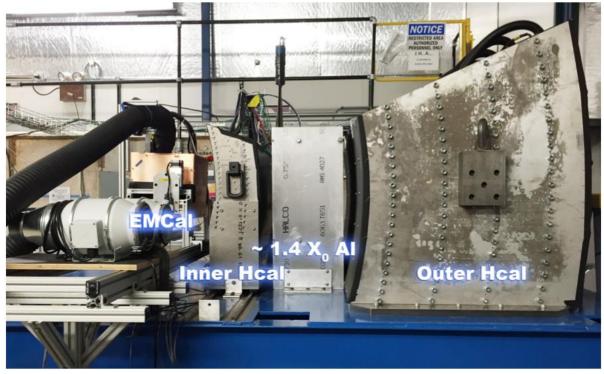


- 4x4 towers
- 80 tiles total

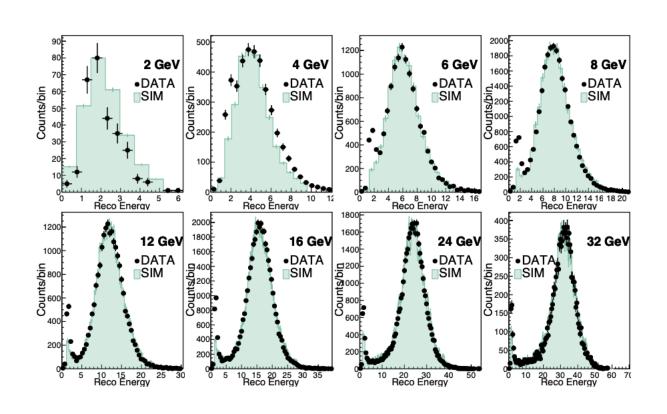


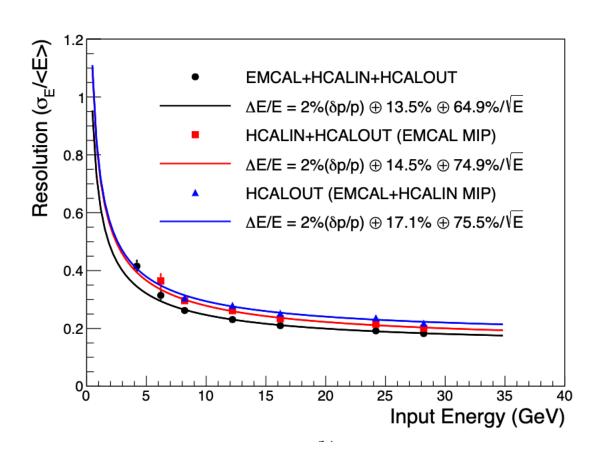
sPHENIX Prototype Beam Setup





Key Results





"Design and Beam Test Results for the sPHENIX Electromagnetic and Hadronic Calorimeter Prototypes," IEEE Transactions on Nuclear Science 65, issue 12, December 2018

ePIC testing

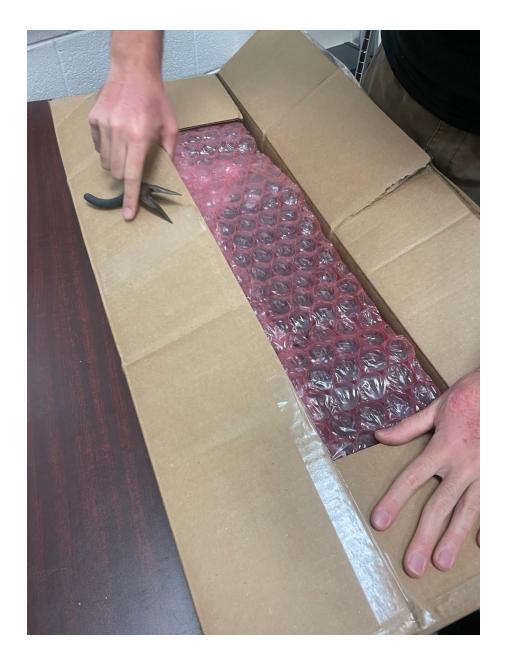
- Have:
 - Steel
 - Spare Tiles
- Need:
 - SiPMs
 - Cables
 - HGCROC

Spare tiles:

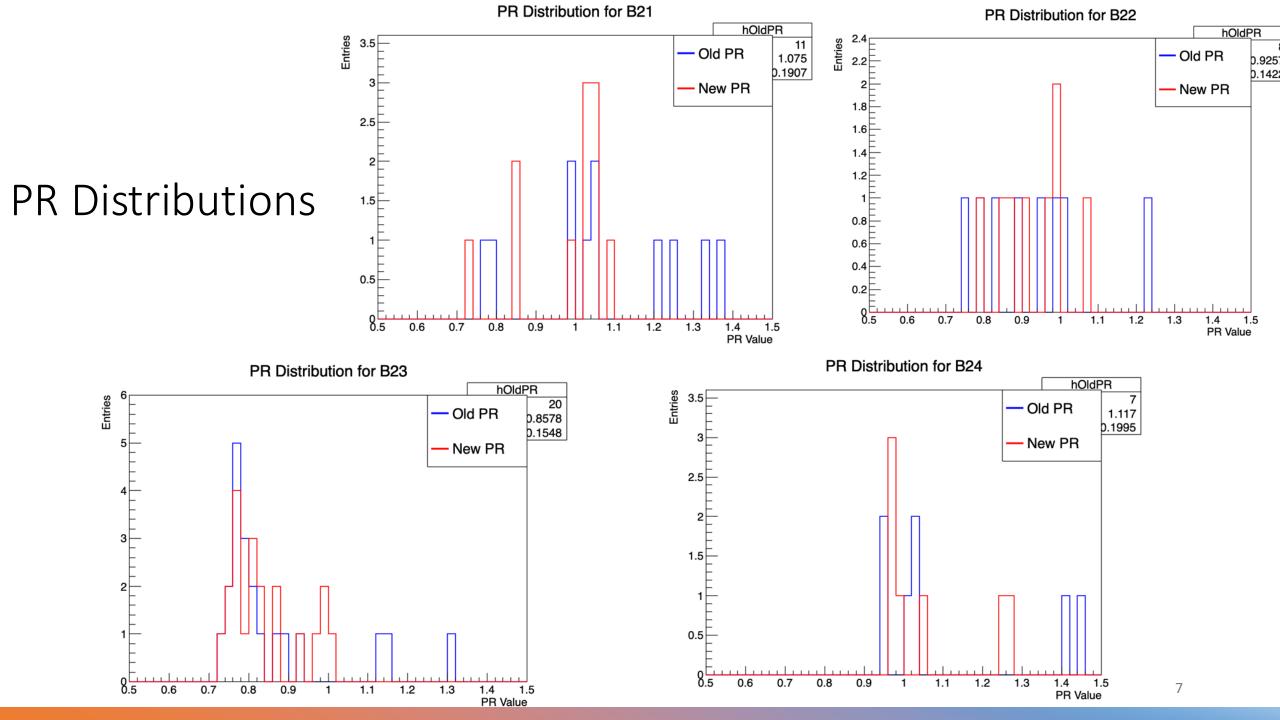
B21	12
B22	15
B23	23
B24	8
B25	12
B26	13
B27	21
B28	11
B29	7
B30	8
B31	8
B32	5

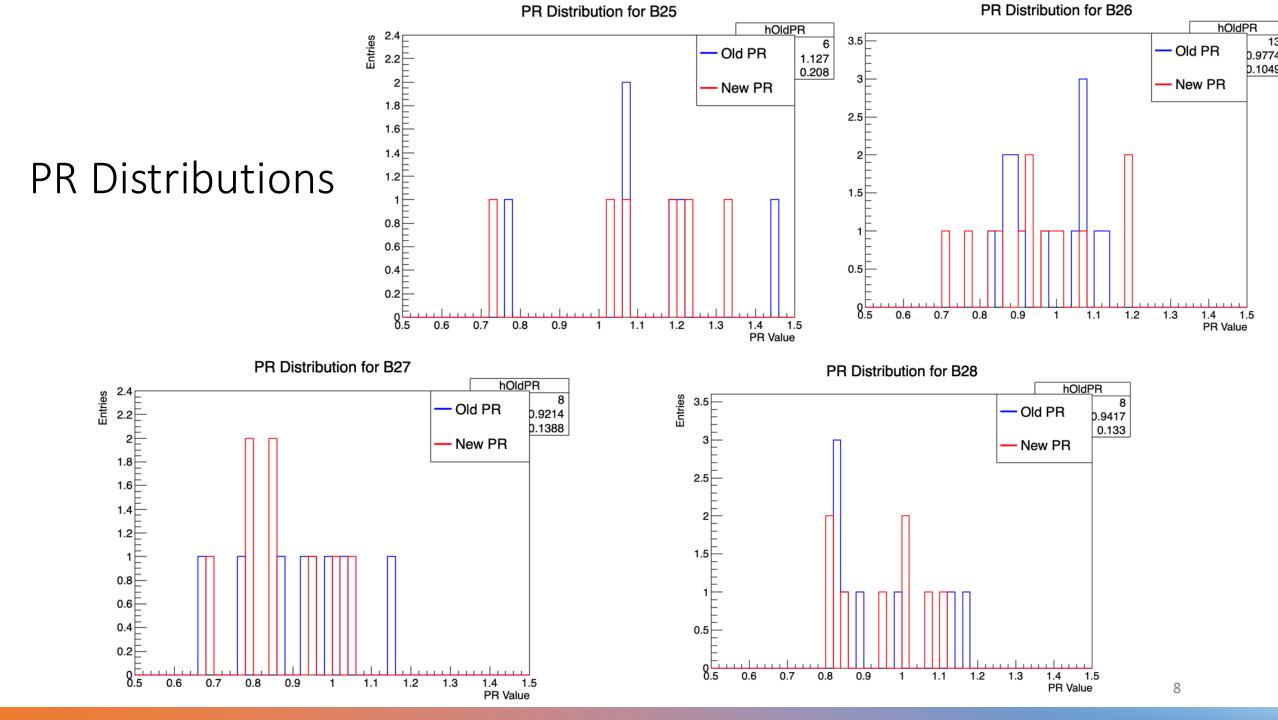
125 Old B25 tiles?

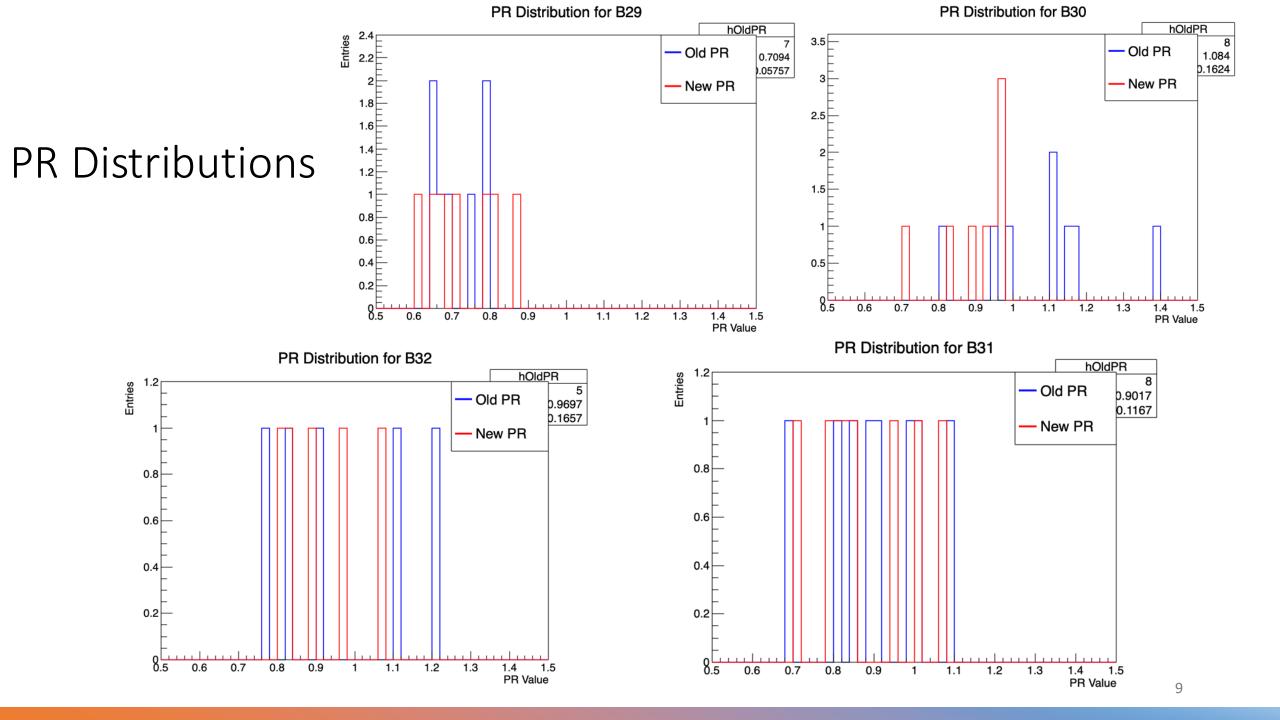


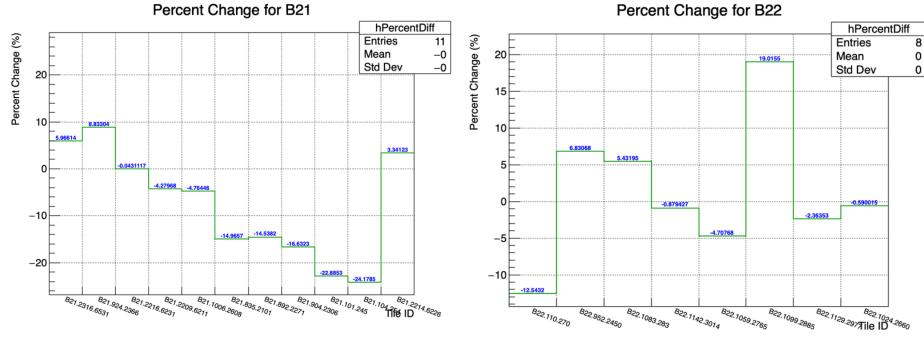




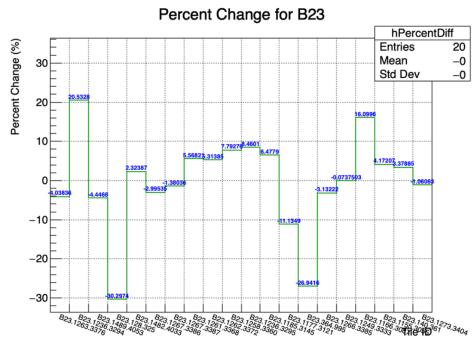


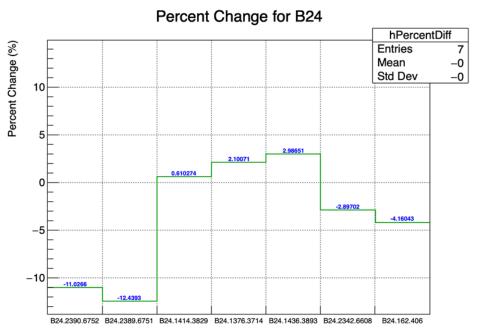




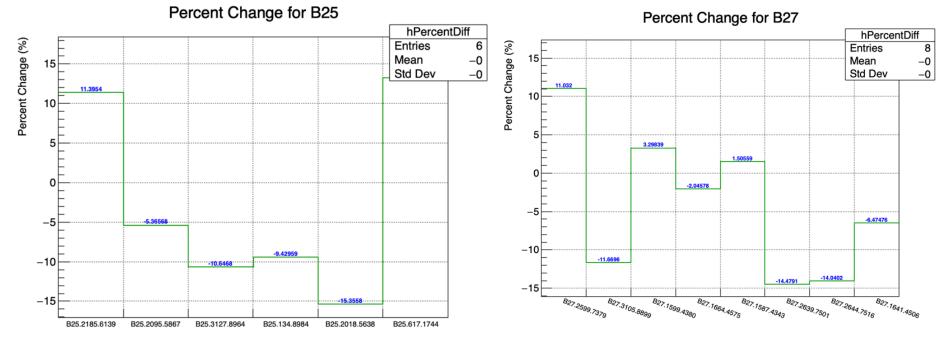


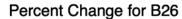
Percent Change

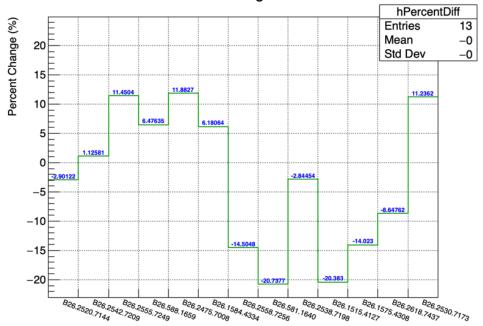




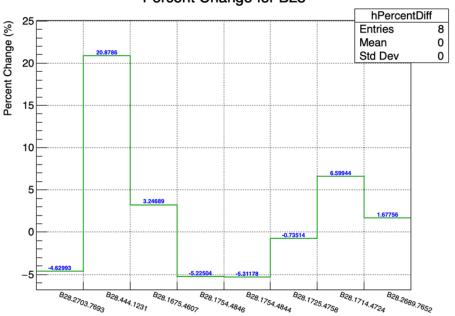
Percent Change

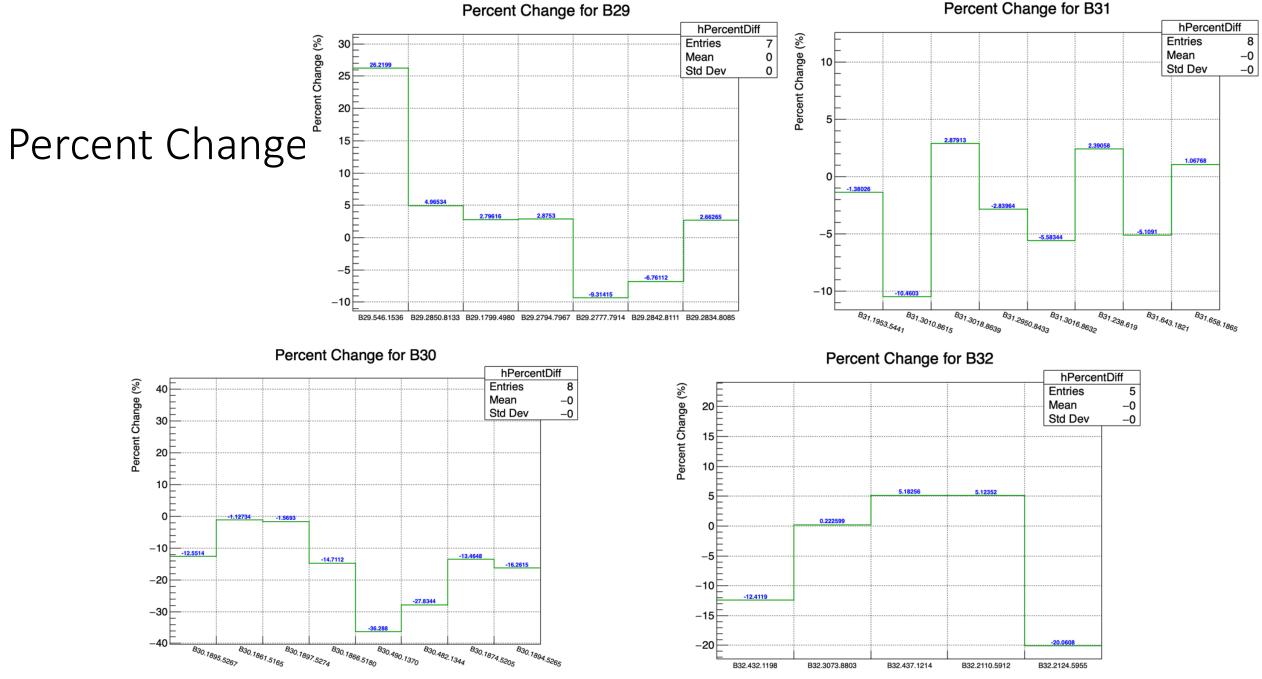






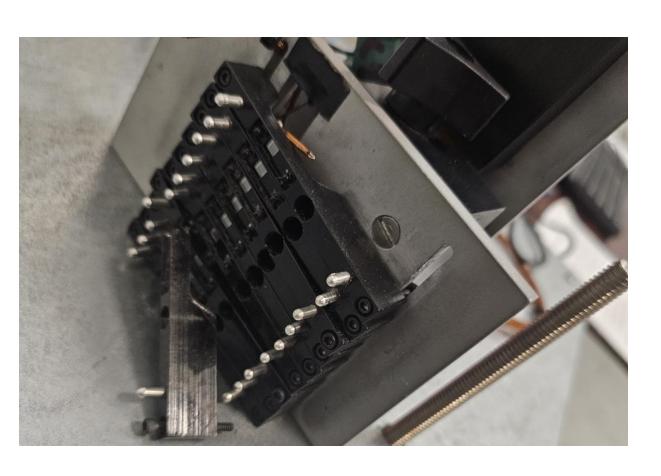
Percent Change for B28





Percent Change for B31

Broken SiPm: Channel 22





Conclusion

- PR values for the Spare Tiles from B21 to B32 were tested by Bayal, Muhammad El-Sayed, Kottavai and Jared.
- The current PR values of the spare tiles were compared to their old values, taken prior to being shipped back to GSU
- 56.34% of the tiles have a percent change in PR value greater than 5%, with 22.54% increasing and 33.80% decreasing by more than 5%.
- Tiles may need a re-test before sending them to BNL