RHIC Polarimetery: p-Carbon

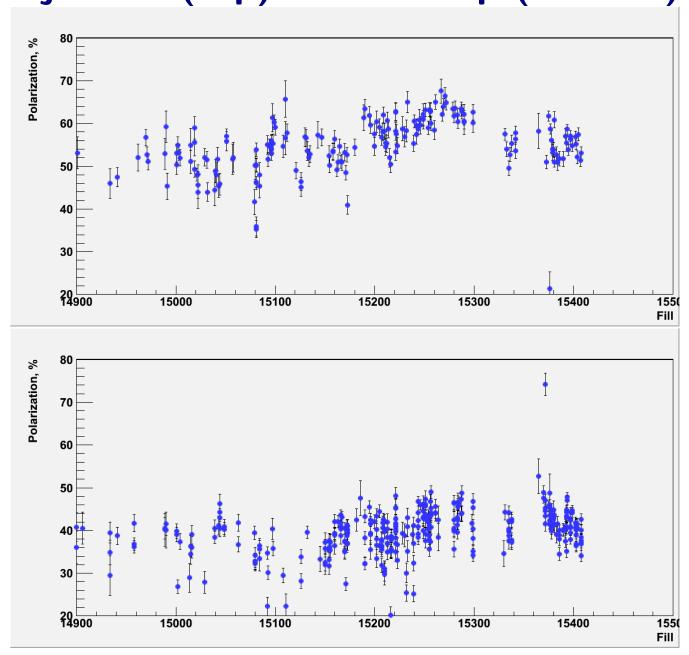
Status

Dmitri Smirnov for CniPol group

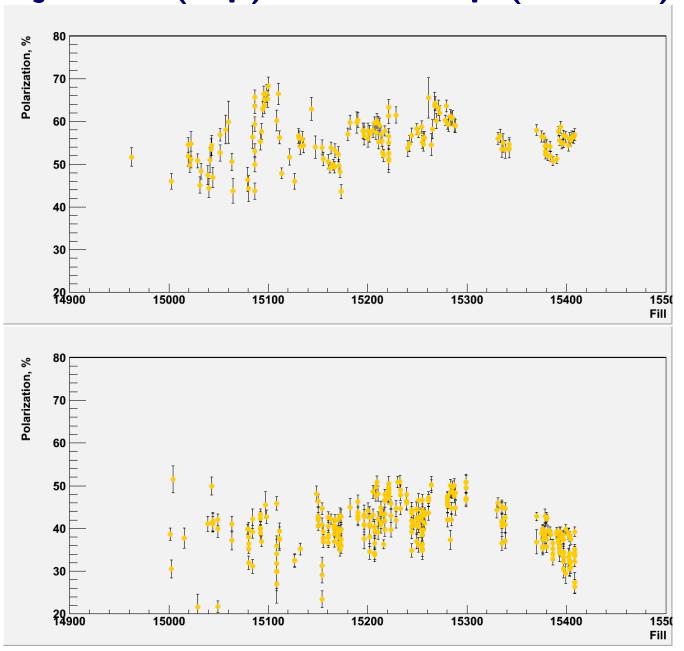
RHIC Spin/STAR, BNL

April 8, 2011

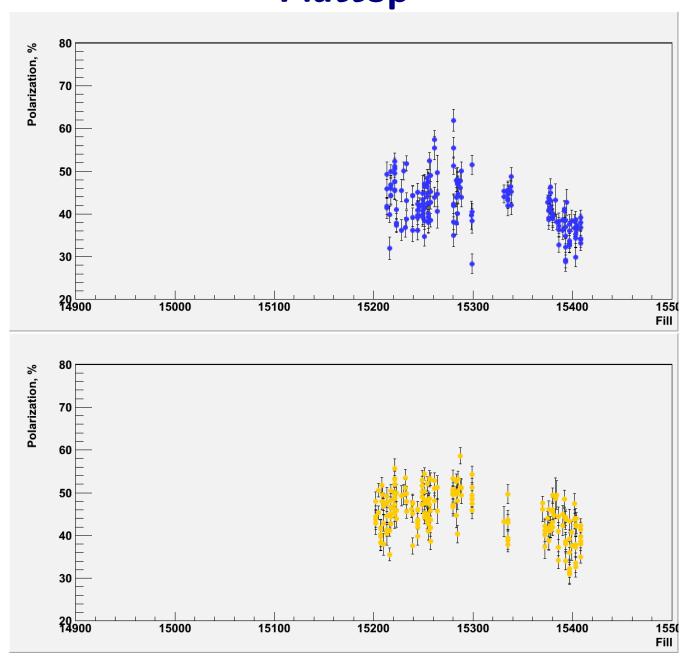
Blue-1 Upstream. Polarization vs Fill Number Injection (top) and Flattop (bottom)



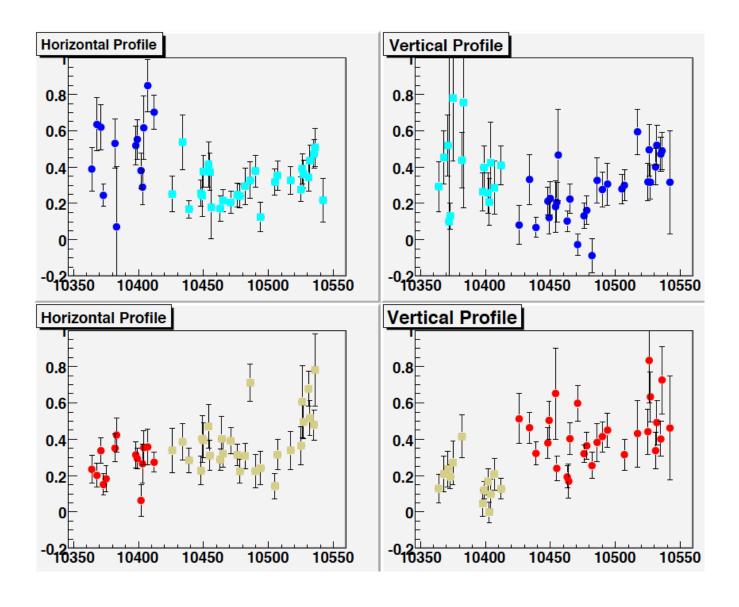
Yellow-2 Upstream. Polarization vs Fill Number Injection (top) and Flattop (bottom)



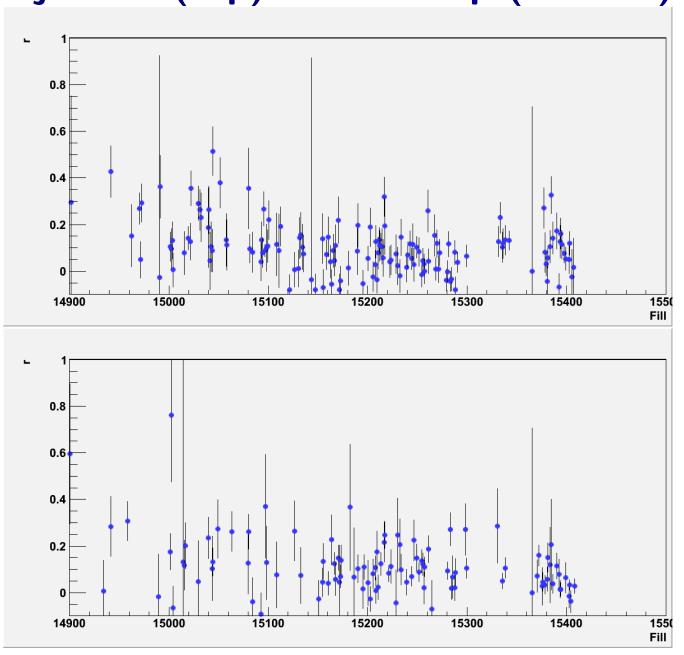
B2 and Y1 Downstream. Polarization vs Fill Number ^{3 of 10} Flattop



"Profile Ratio" r in Run 9

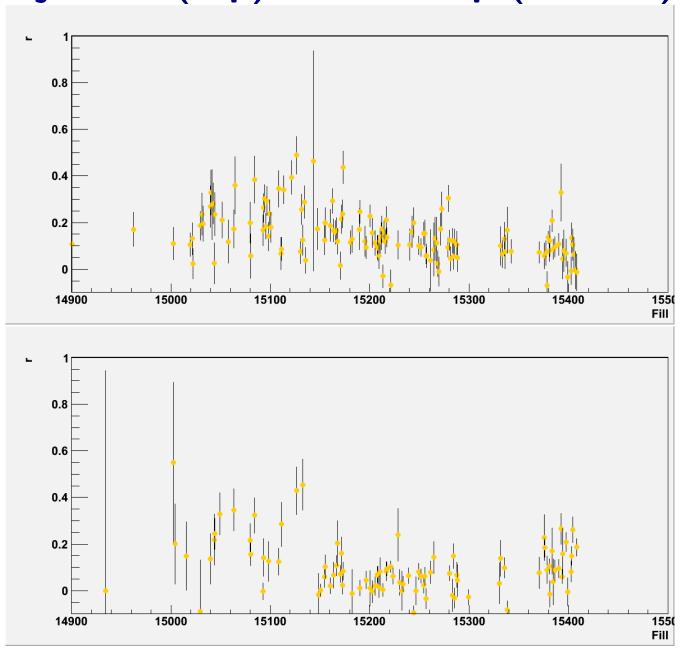


Blue-1 Upstream. "Profile Ratio" r vs Fill Number Injection (top) and Flattop (bottom)

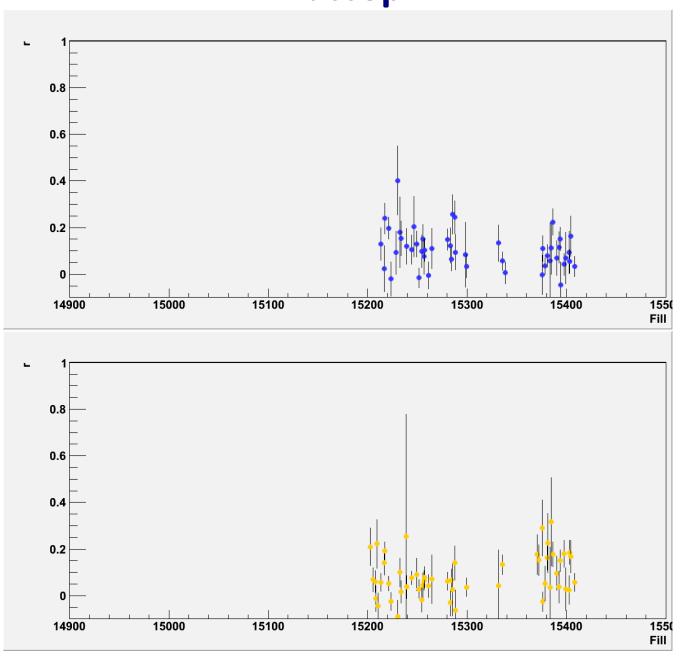


5 of 10

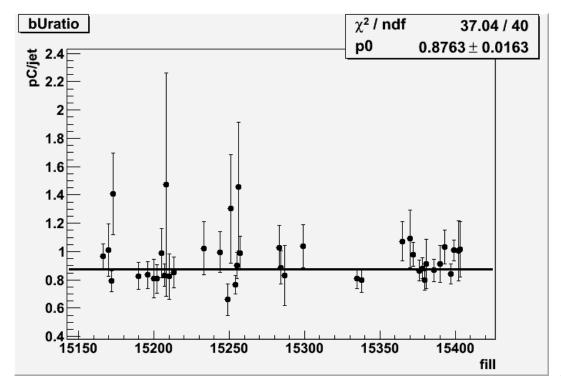
Yellow-2 Upstream. "Profile Ratio" r vs Fill Number 6 of 10 Injection (top) and Flattop (bottom)

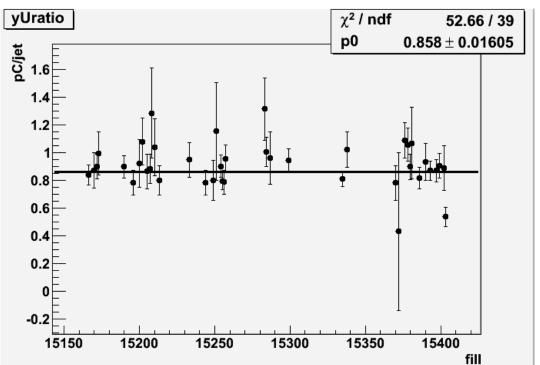


B2 and Y1 Downstream. Polarization vs Fill Number ^{7 of 10} Flattop



p-Carbon and H-jet Polarization Ratio: Blue and Yellow of 10





Summary

- There is a clear correlation between the average polarization in a store and polarization profile
- On average the polarization profile is better than in Run 9
- \bullet Offline p-Carbon polarization is $\sim 13\%$ lower than measured by the H-jet

Extras

