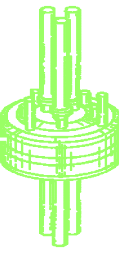


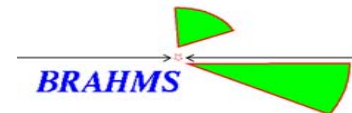


Latest Results from p+p



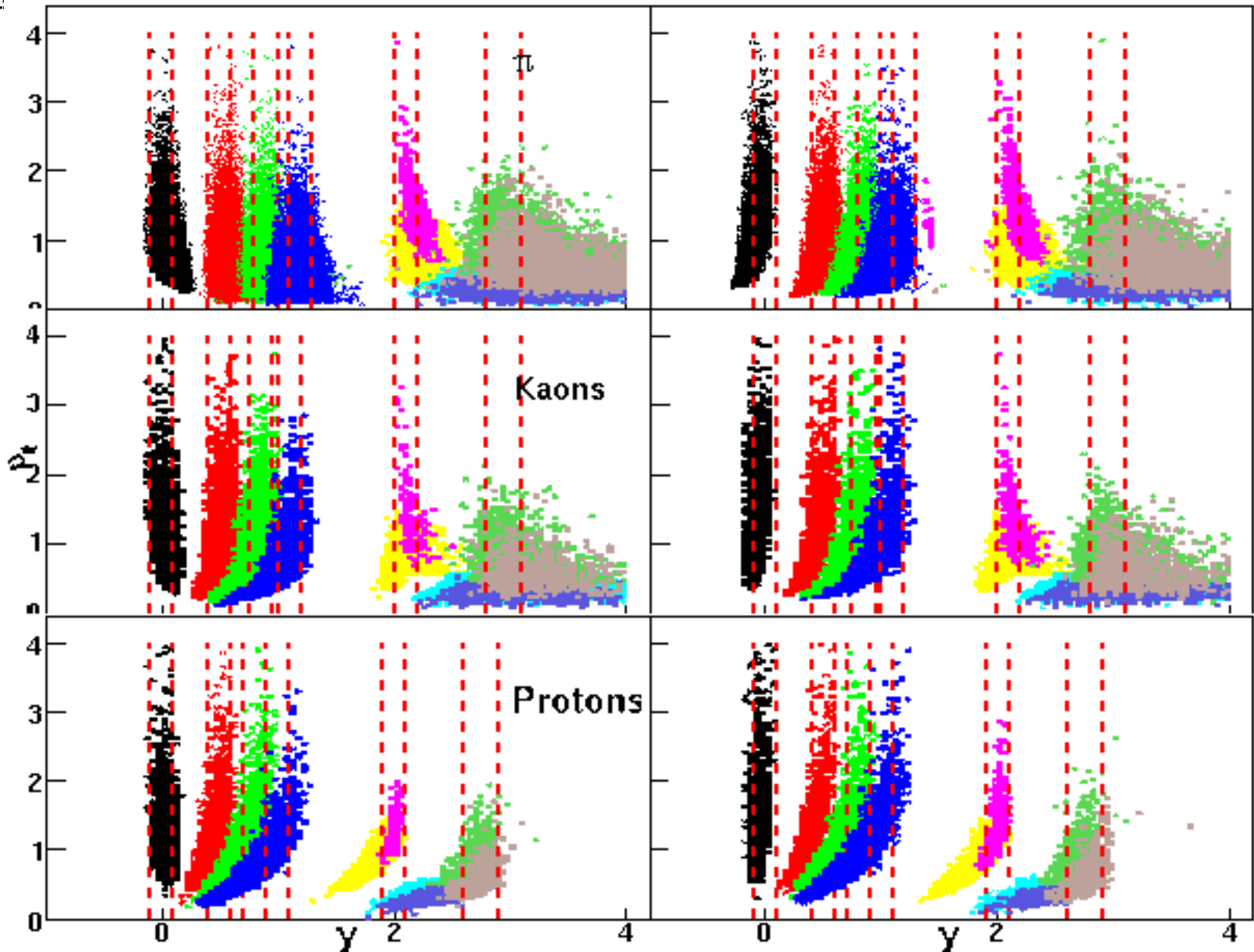
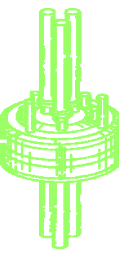
K. Hagel
Cyclotron Institute
Texas A & M University
College Station, Texas

- Coverage
- Pt distributions
 - MRS
 - FFS
 - BFS
- Ratios as function of p_t
- Run III enhancements to the data
- Future





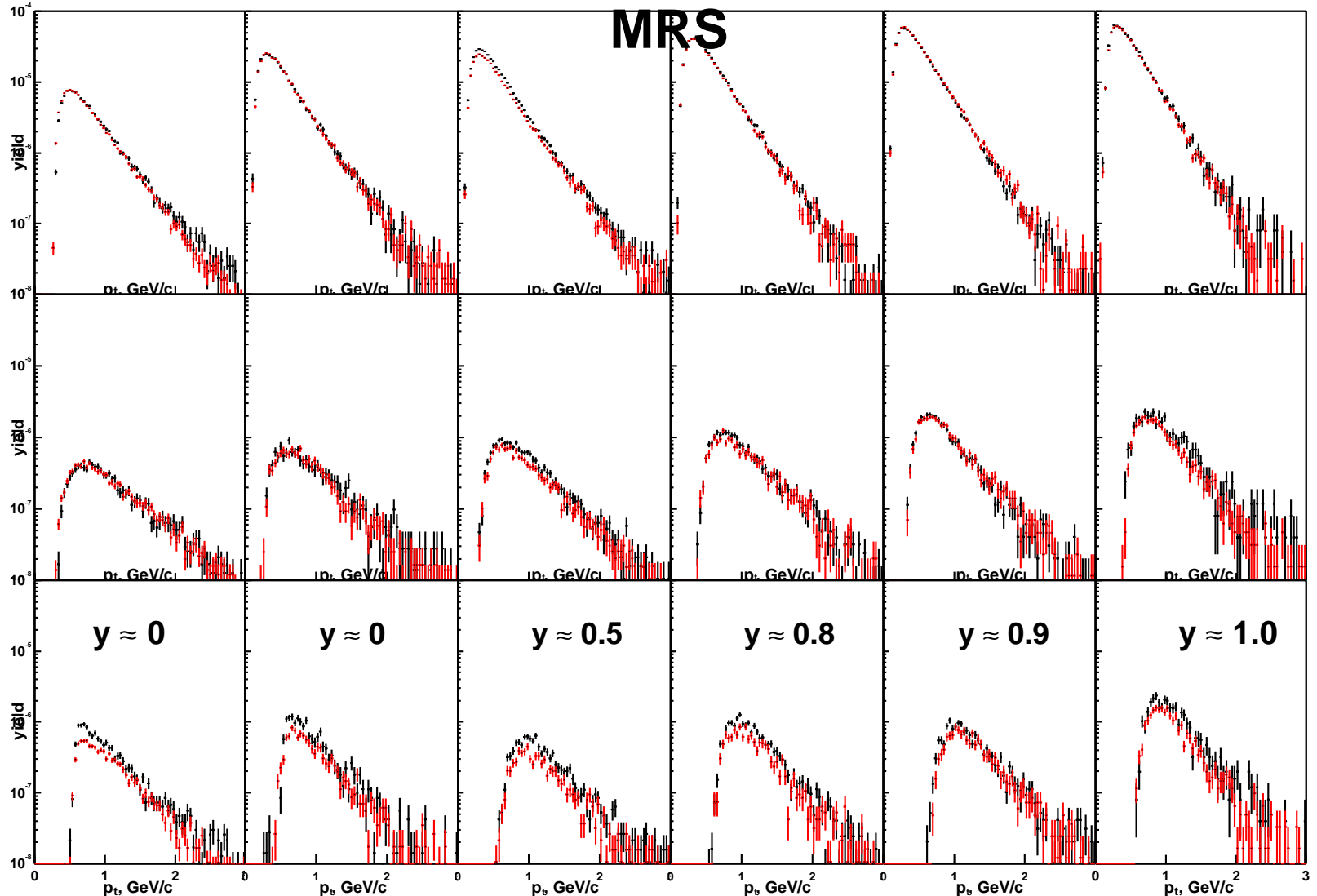
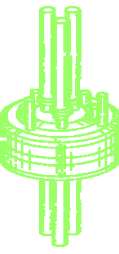
Coverage in Run-II





MRS P_t distributions

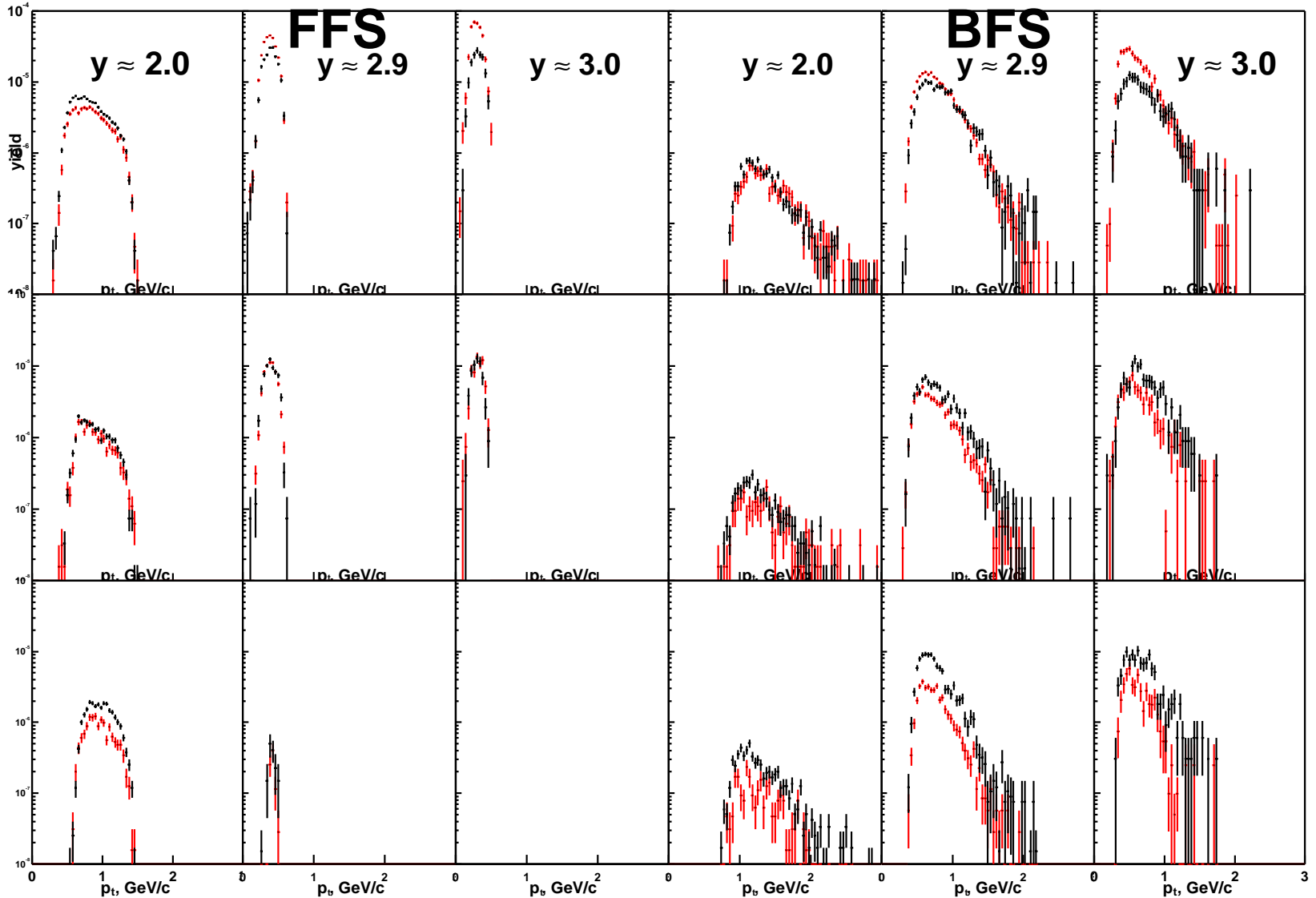
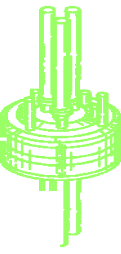
BRAHMS Preliminary





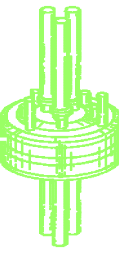
FS P_t distributions

BRAHMS Preliminary

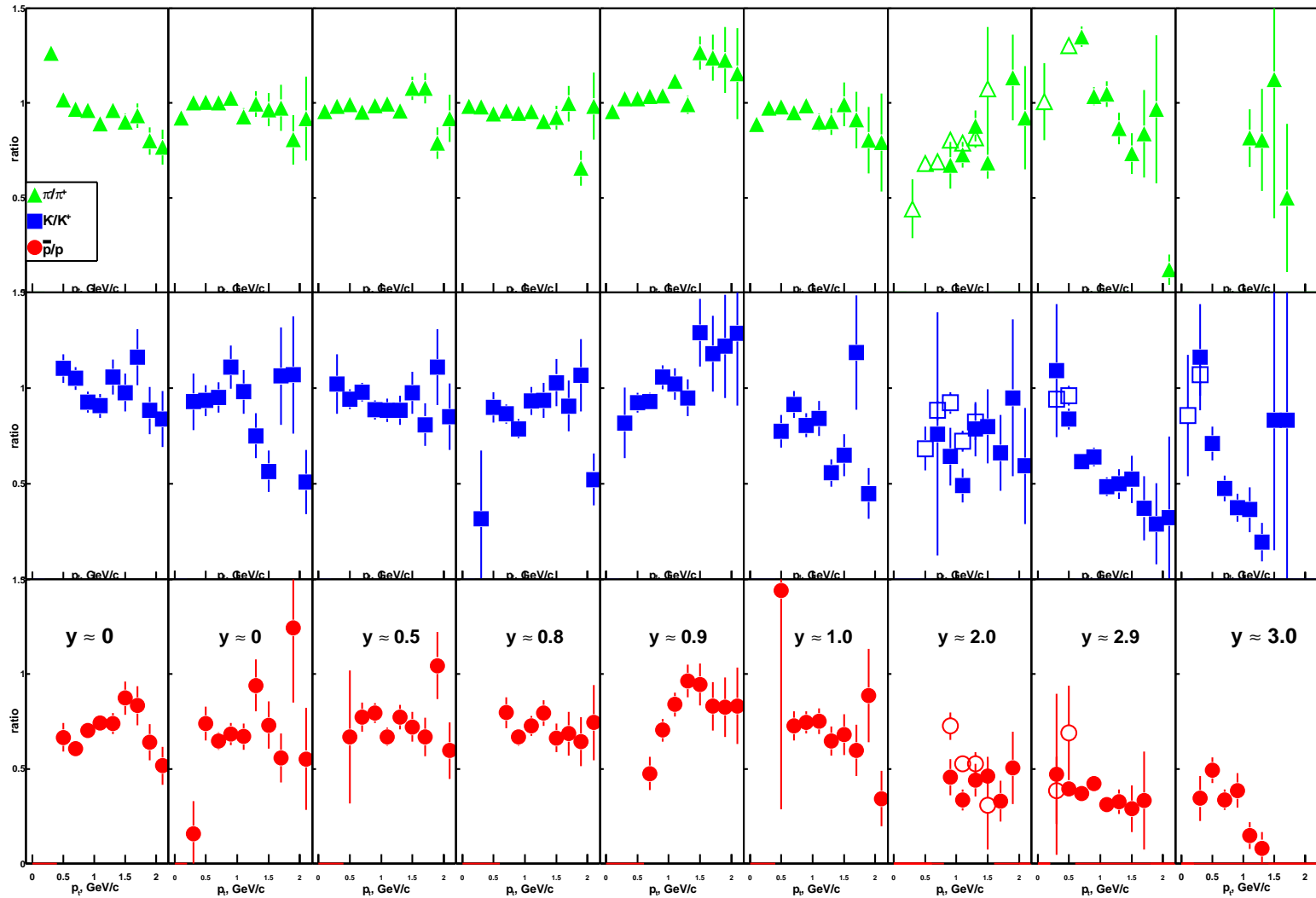




Latest Ratio Results

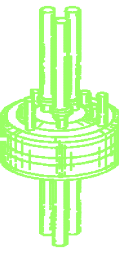


BRAHMS Preliminary





Run III enhancements to Run-II p + p data

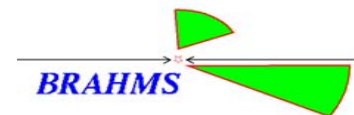


- FFS

- 4° 1/8A+B, 1/4A+B, 1/2A+B, 1/1A
- 8° Low field runs (get low pt $y = 2$)
- 12° 1/8A+B, 1/4A+B, 1/2A

- MRS

- More statistics at 90° 350 and 1000 A & B
- Long run at 40° 1000 both polarities
- Long run at 40° 2000 polA



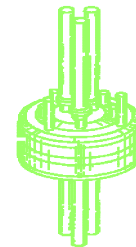


22-May-2003

The following shows the trig 2 and trig 6 events.

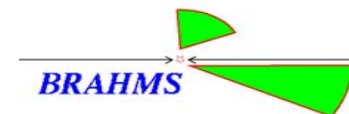
FS

| Angle | Field | Run range | Trig 6 evts | Trig 2 evts |
|-------|--------------|-------------------------|-------------|-------------|
| 8 | 289A (1/12A) | 8675-8707 | 321933 | 83154 |
| | 289B (1/12B) | 8775-8786 | 351898 | 93088 |
| 8 | 427A (1/8A) | 8751-8766 | 344474 | 82823 |
| | 427B (1/8B) | 8767-8775 | 304815 | 75710 |
| 12 | 230A (1/15A) | 8924-8928 | 102257 | 26101 |
| | 230B (1/15B) | 8792-8802 | 246582 | 64628 |
| 12 | 427A (1/8A) | 8833-8840 | 107760 | 22206 |
| | 427B (1/8B) | 8812-8827, 8829 | 162844 | 34293 |
| 12 | 843A (1/4A) | 8855-8877 | 96034 | 8962 |
| | 843B (1/4B) | 8787-8791 | 10373 | 1077 |
| 12 | 1692A (1/2A) | 8878-8913 | 197885 | 3899 |
| | 1692B (1/2B) | 8803-8805 | 11144 | 278 |
| 4 | 427A (1/8A) | 8978-8979 | 195784 | 73052 |
| | 427B (1/8B) | 9028 | 126565 | 47682 |
| 4 | 843A (1/4A) | 8847-8851 | 110547 | 43318 |
| | 843B (1/4B) | 8931,9029 | 109373 | 83442 |
| 4 | 1692A (1/2A) | 8937-8952 | 596294 | 140335 |
| | 1692B (1/2B) | 8932 | 95929 | 45065 |
| 4 | 3450A (1/1A) | 8958-8968, 8980-9026 | 2226851 | 215266 |
| | 3450B (1/1B) | 8933 | 56569 | 7198 |
| | | | | |



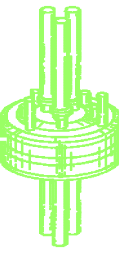
MRS

| Angle | Field | Run range | Trig 3 evts |
|-------|-------|-----------|-------------|
| 40 | 1050A | 8767-8794 | 902568 |
| | 1050B | 8751-8766 | 402589 |
| 40 | 2000A | 8795-8913 | 3770000 |
| | | | |
| 90 | 350A | 8981-8991 | 199914 |
| | 350B | 9001-9012 | 202758 |
| 90 | 1050A | 8924-8980 | 587264 |
| | 1050B | 9013-9029 | 107430 |





Spectra



- Run-III (perhaps/probably supplemented with run-II) data should allow spectra at $y=0$, $y=2$ and $y=3$.
- No proton $p_t < 700$ MeV at $y \approx 1$
 - Needed 35° low field run. Had plans to get that run. Didn't get it. Got stepped on by elephants. Bla bla bla!!!





$p + p$ Ratio Paper



- Ratios from Run-II data as far as I am concerned are solid.
- Supplementing with Run-III data is necessary at $y=2$ because no low p_t data in Run-II.
- Cleaner data at $y=0$, $y=1$ because of the addition of C4.





Plans



- Process Run-III data as quickly as possible.
 - Infrastructure in place.
 - Need solid calibrations of detectors.
 - Special care to H1, H2 during time period when several of the PMTs time offsets were jumping around.
 - How will this come about?
- Generate spectra
 - Acceptance corrections (pure geometrical and/or Geant simulations)
- Beyond spectra

