Spin Duality analysis update

Weekly meeting, November 11, 2004

1. Correction for finite acceptance by using Mott cross section
    - right arm looks good.
    - have some problems with left arm. I am working on it.
2. Looking into cross section models (resonance and DIS) to compare with mine.

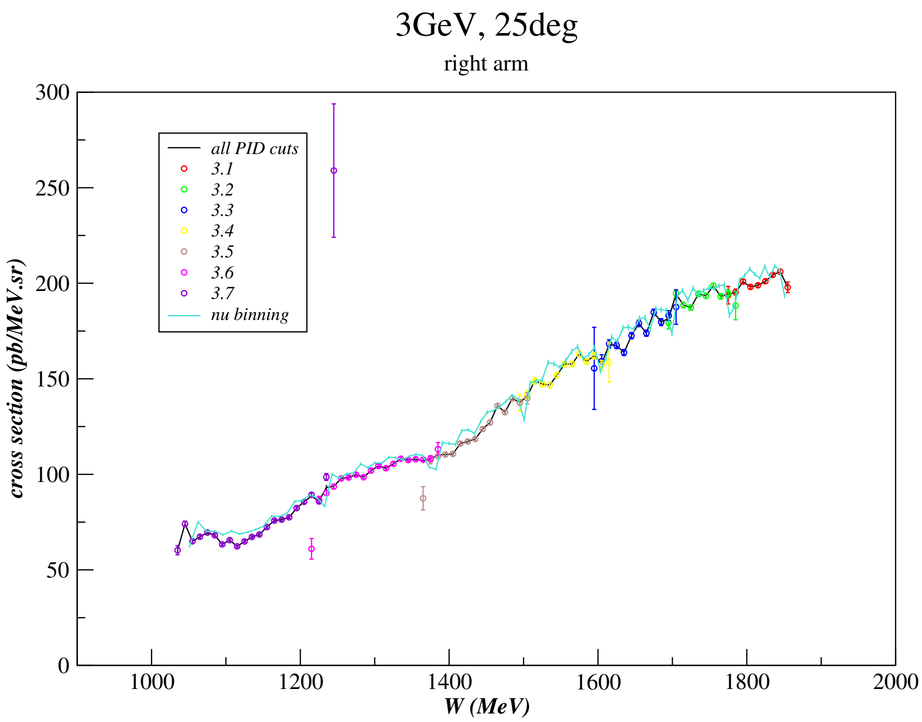


Figure 1: right arm cross section at 3.026 GeV and 25° with finite acceptance correction

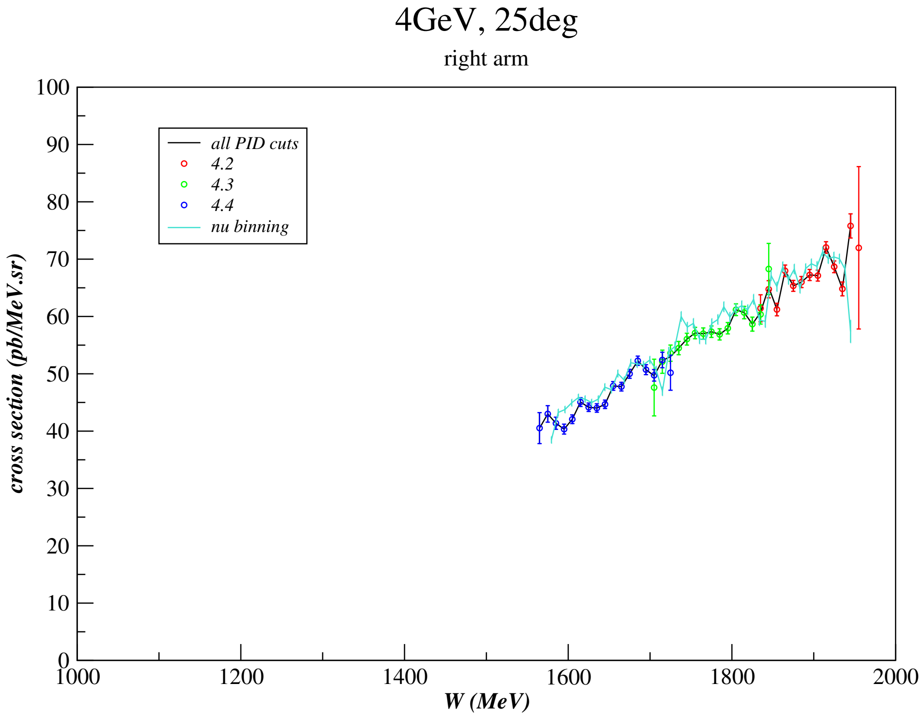


Figure 2: right arm cross section at 4.018 GeV and 25° with finite acceptance correction

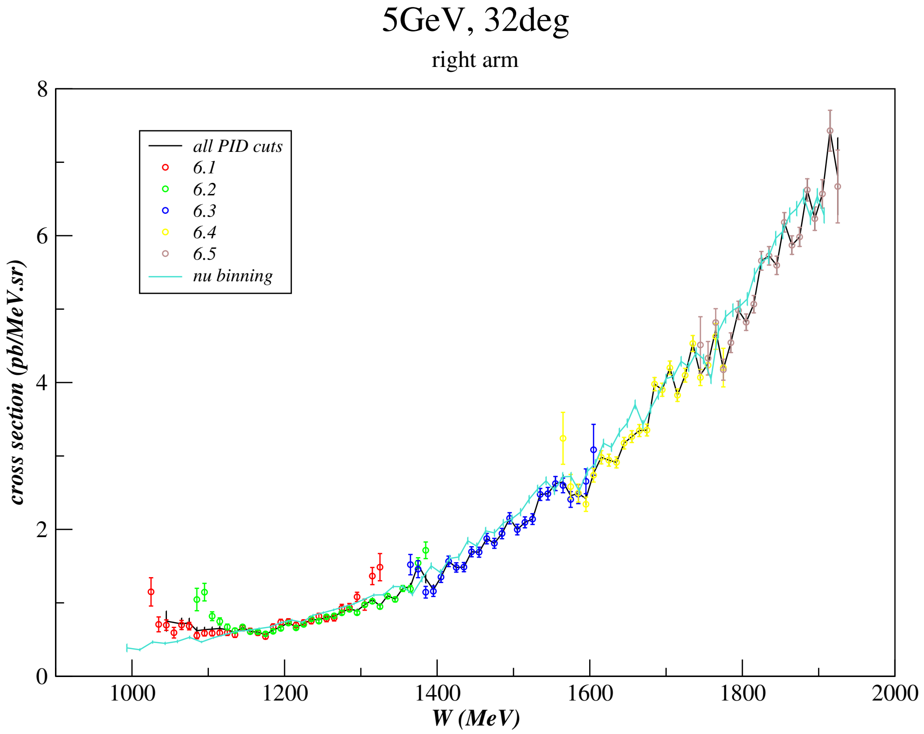


Figure 3: right arm cross section at 5.009 GeV and 32° with finite acceptance correction

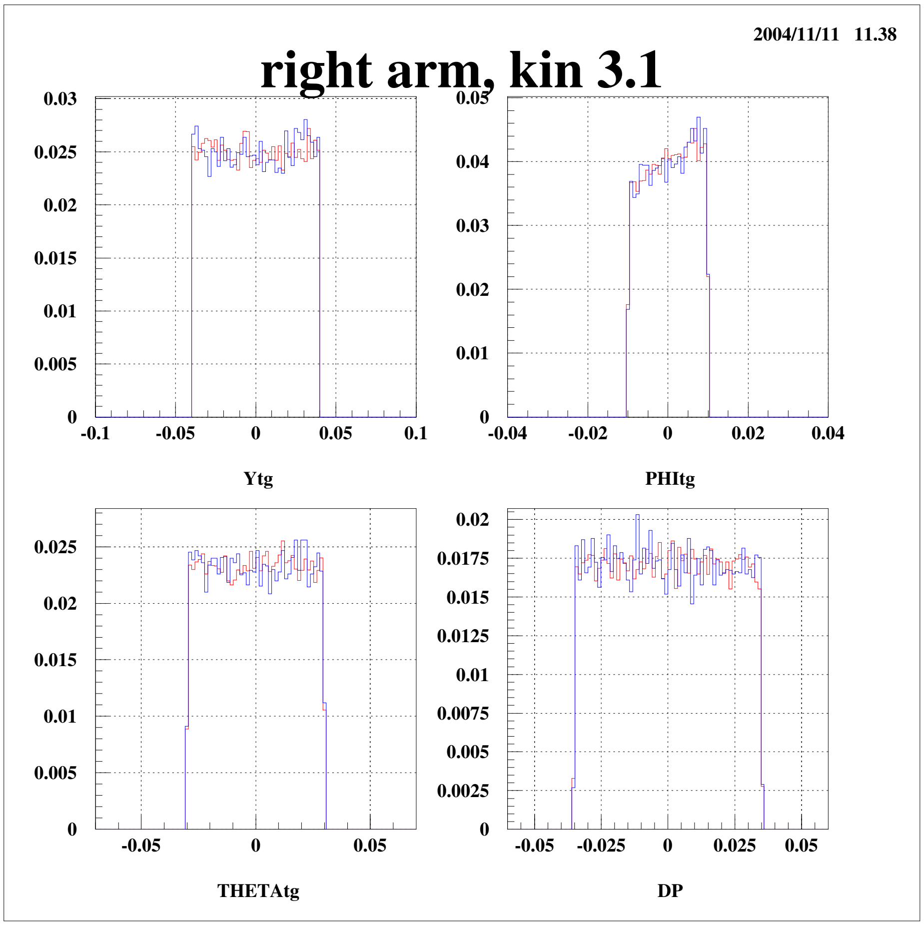


Figure 4: Target cuts used for the previous cross sections (2D cuts on y_{tg} and ϕ_{tg}) are also applied)

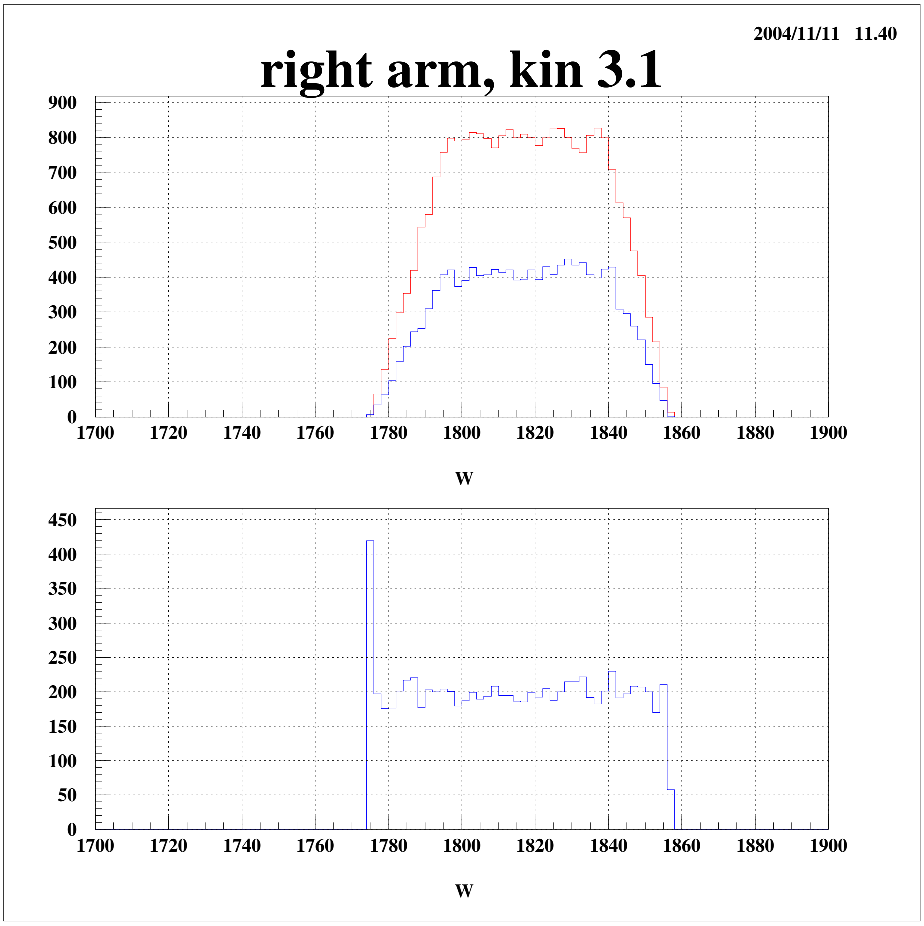
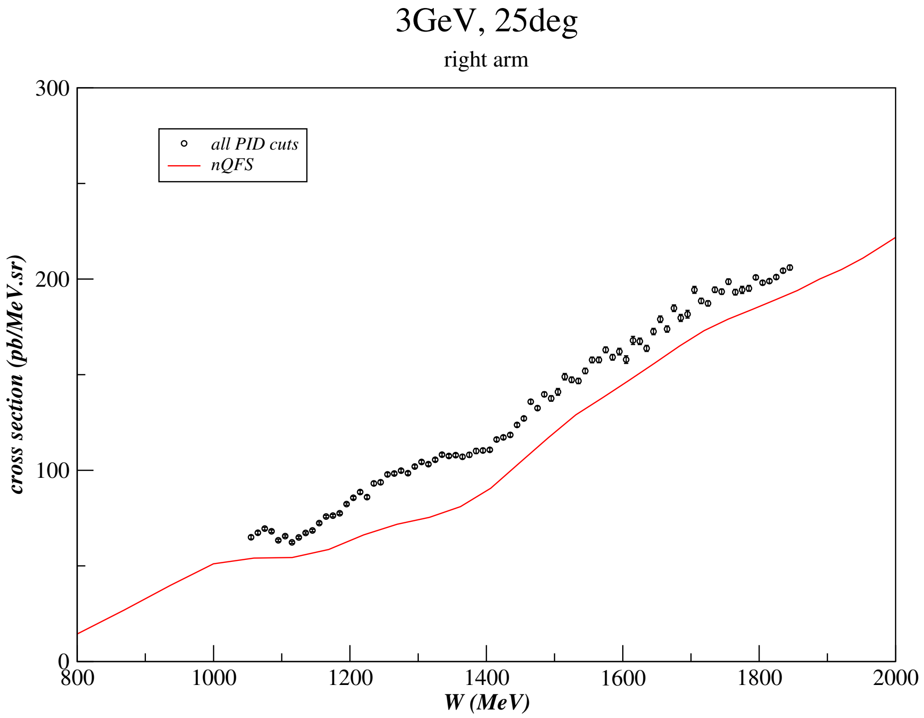
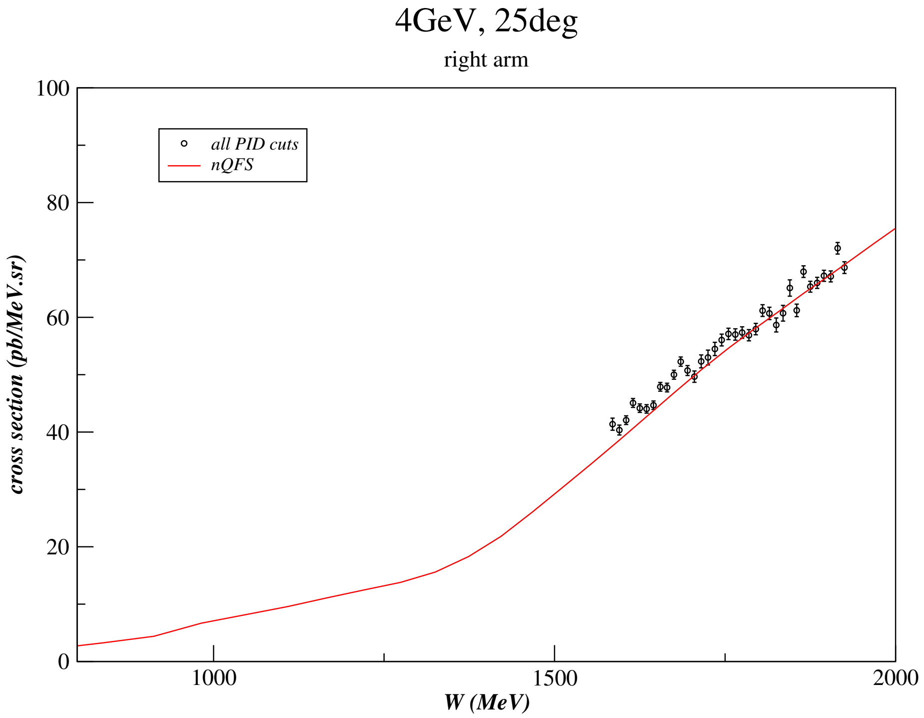
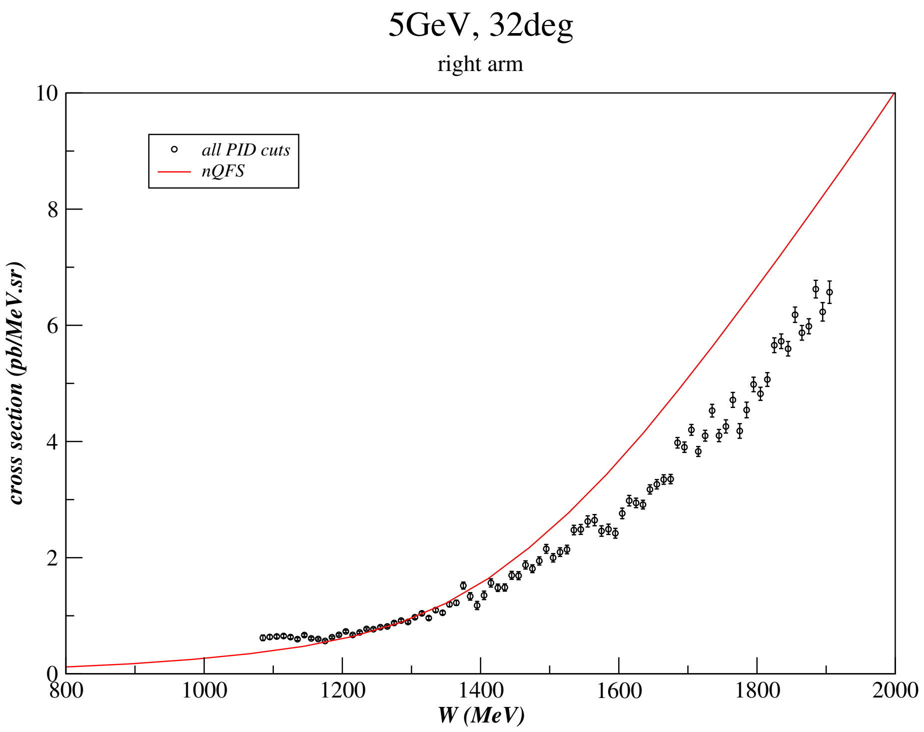


Figure 5: TOP plot: red is simulation and blue is data; BOTTOM plot: cross section (in pb/MeV.sr) for run 1837 (kin 3.1)


3GeV, 25deg
right arm
all PID cuts
nQFS
cross section (pb/MeV.sr)
W (MeV)
0
100
200
300
800
1000
1200
1400
1600
1800
2000


4GeV, 25deg
right arm
all PID cuts
nQFS
cross section (pb/MeV.sr)
W (MeV)
0
20
40
60
80
100
1000
1500
2000



5GeV, 32deg
right arm
all PID cuts
nQFS
cross section (pb/MeV.sr)
W (MeV)
0
2
4
6
8
10
800
1000
1200
1400
1600
1800
2000