

# RHICBOS MC simulations W production at RHIC at $s = 500\text{GeV}$

Bernd Surrow  
MIT

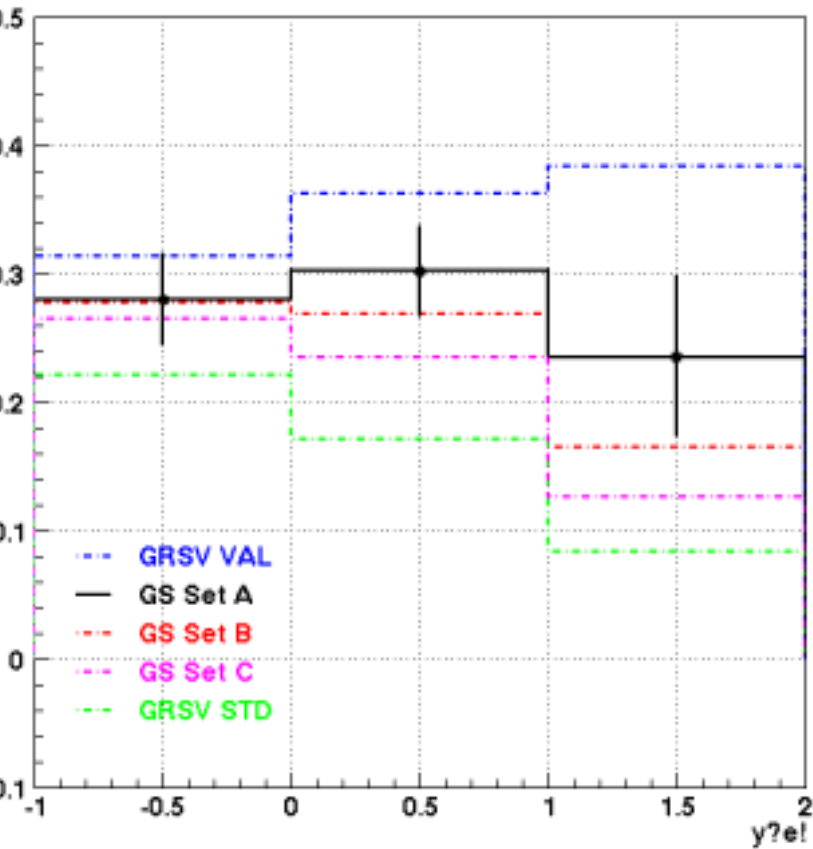
Material available at:

<http://xserver.lns.mit.edu/~surrow/rhicspin/analysis/theory/w/rhicbos/>

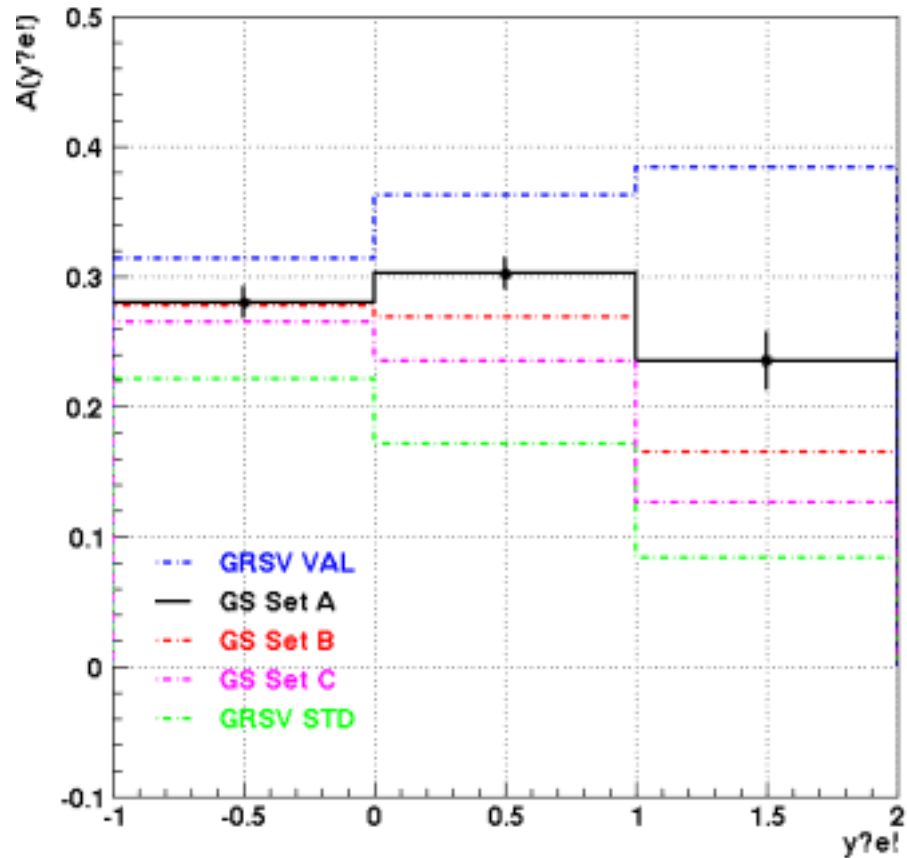
# RHICBOS MC simulations

W- production: No pT cut

RHICBOS W- simulation (P=0.5 L=200pb<sup>-1</sup>)



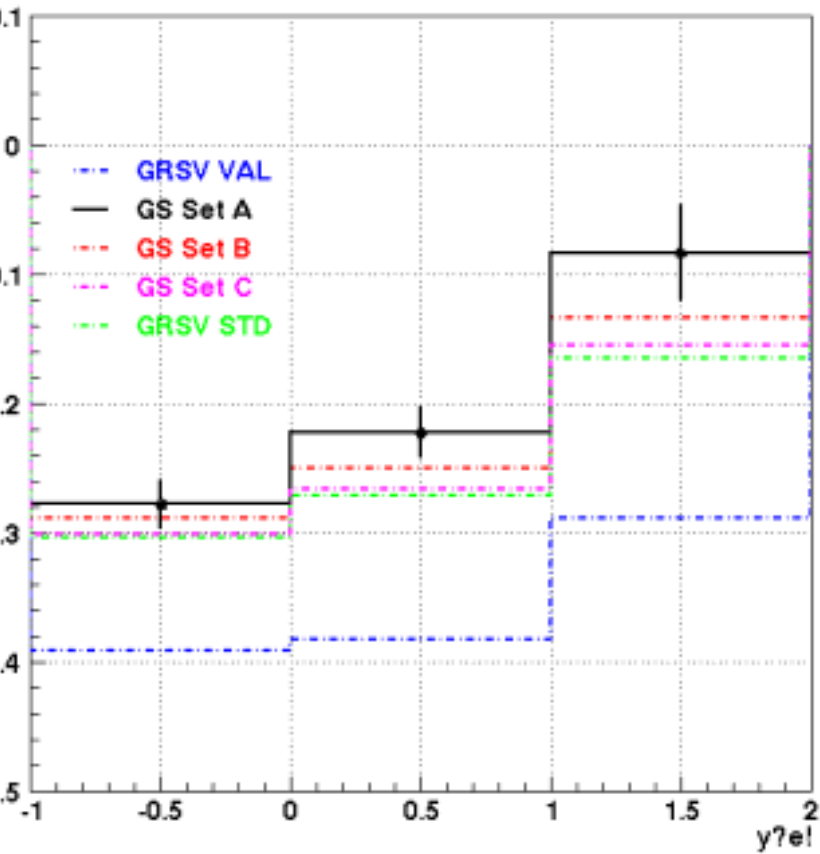
RHICBOS W- simulation (P=0.7 L=800pb<sup>-1</sup>)



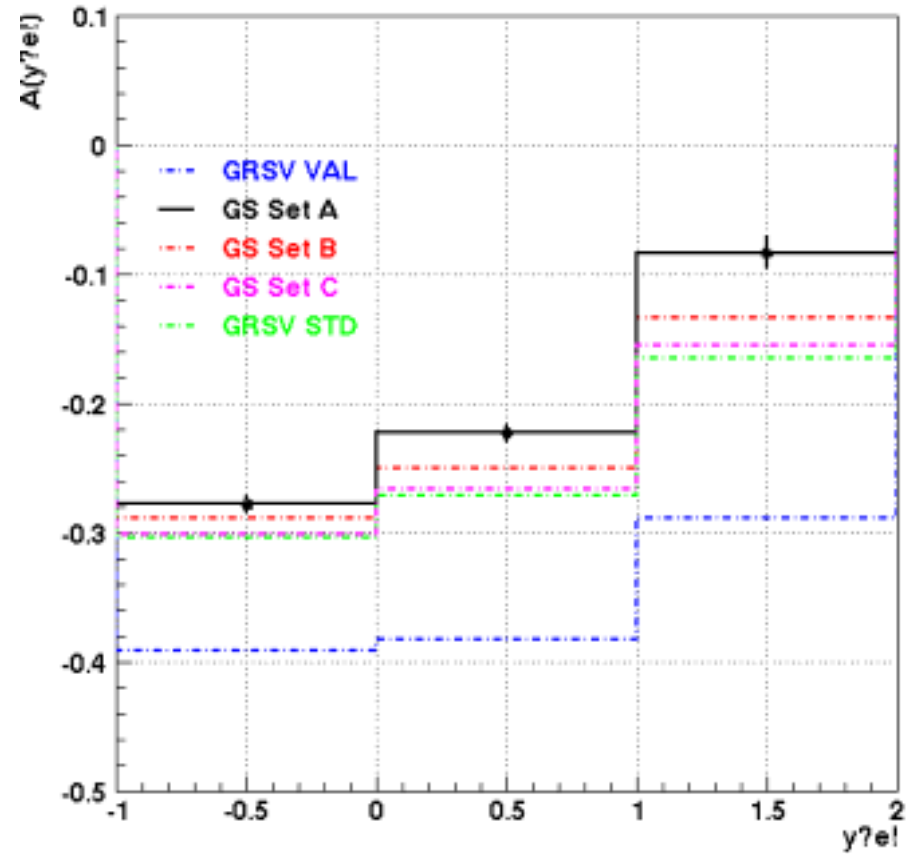
# RHI CBOS MC simulations

$W^+$  production: No  $p_T$  cut

RHICBOS  $W^+$  simulation ( $P=0.5$   $L=200\text{pb}^{-1}$ )



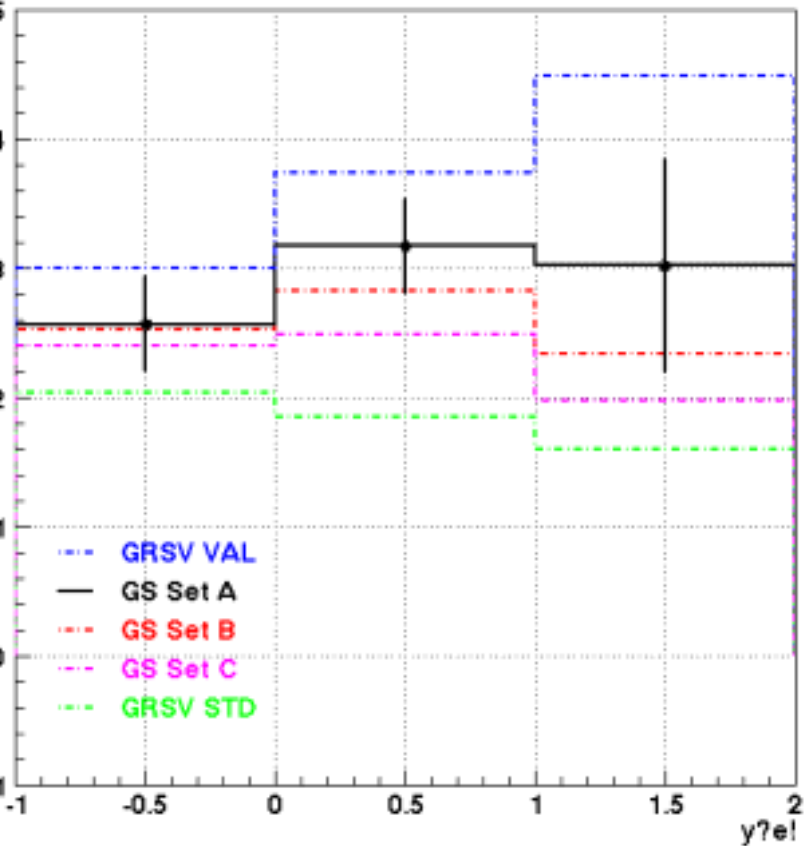
RHICBOS  $W^+$  simulation ( $P=0.7$   $L=800\text{pb}^{-1}$ )



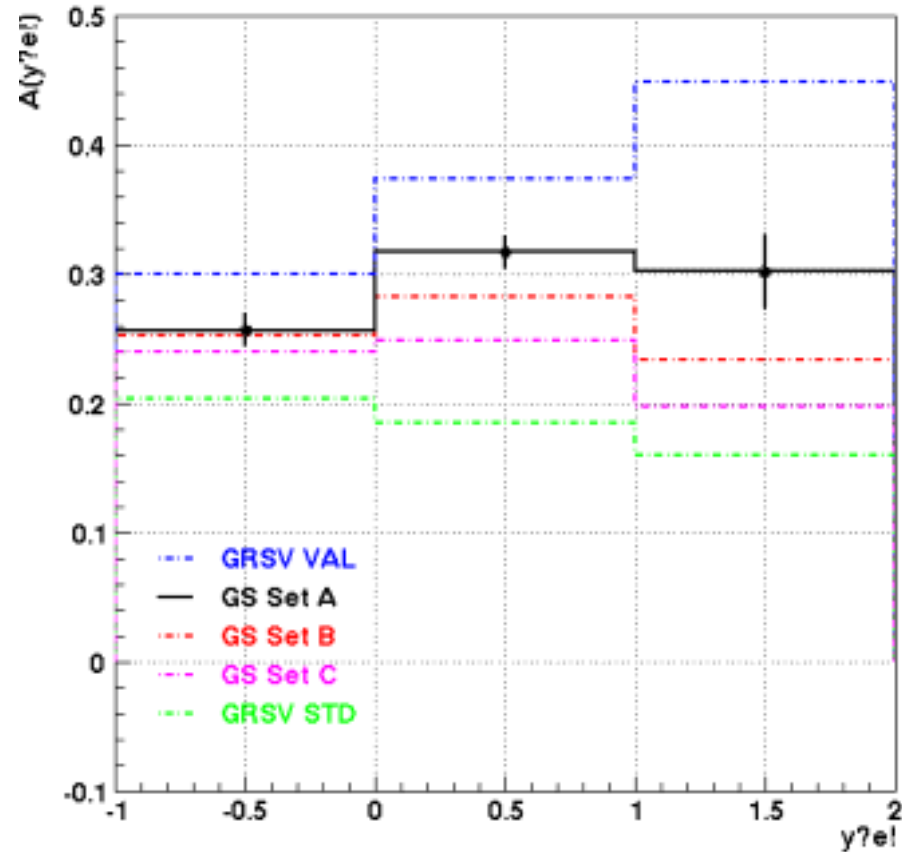
# RHICBOS MC simulations

W- production:  $p_T > 20 \text{ GeV}/c$

RHICBOS W- simulation (P=0.5 L=200pb<sup>-1</sup>) P<sub>T</sub>>20GeV/c



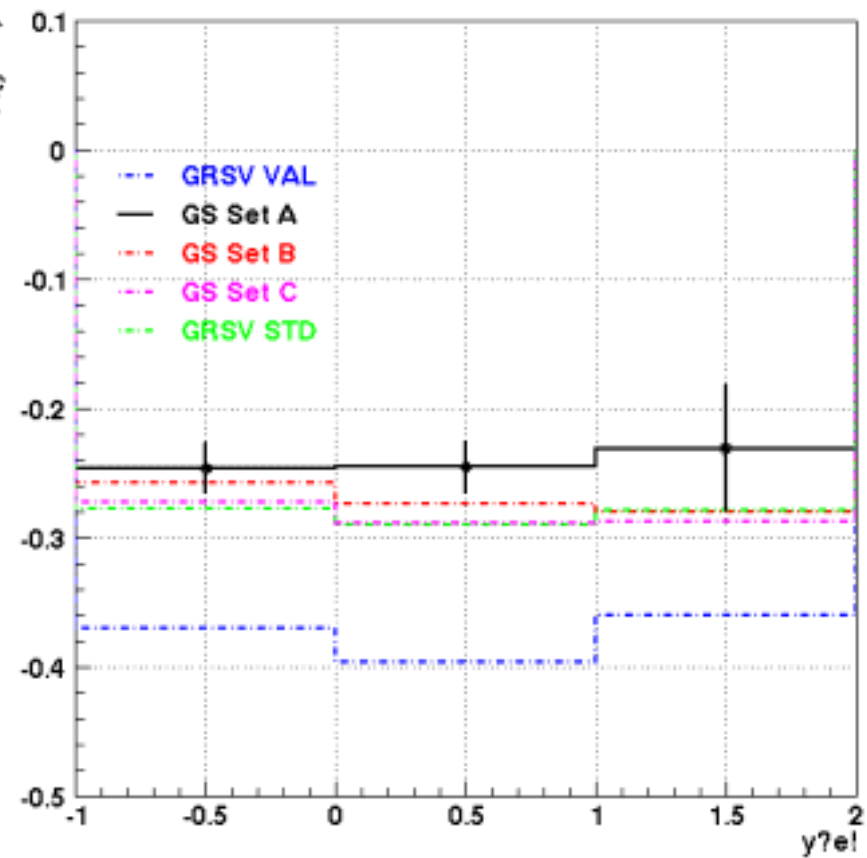
RHICBOS W- simulation (P=0.7 L=800pb<sup>-1</sup>) P<sub>T</sub>>20GeV/c



# RHICBOS MC simulations

$W^+$  production:  $P_T > 20 \text{ GeV}/c$

RHICBOS  $W^+$  simulation ( $P=0.5 \text{ L}=200 \text{ pb}^{-1}$ )  $P_T > 20 \text{ GeV}/c$



RHICBOS  $W^+$  simulation ( $P=0.7 \text{ L}=800 \text{ pb}^{-1}$ )  $P_T > 20 \text{ GeV}/c$

