

Fit results using pp data for $\sqrt{s} = 2.76$ TeV

Dilepton/Upsilon Meeting

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January 29, 2013

Three $\Upsilon(nS)$ Peaks

- Fit range 8.5 - 11.5 GeV/c
- Polynomial background.

Example (Results for backward rapidity:)

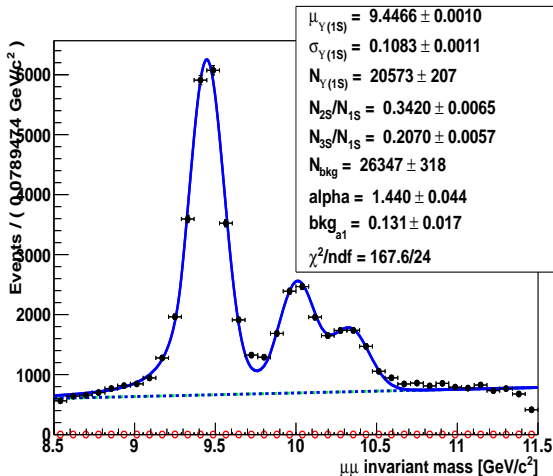
$p_T \leq 30 \text{ GeV}/c$ and $-2.4 \leq y \leq -0.47$ location of the file:
</afs/cern.ch/work/m/mironov/public/oniaMiniTree/>

Floating Parameter	FinalValue +/- Error
$\mu_{\Upsilon(1S)}$	9.4466e+00 +/- 1.04e-03
$\sigma_{\Upsilon(1S)}$	1.0834e-01 +/- 1.09e-03
$N_{\Upsilon(1S)}$	2.0573e+04 +/- 2.07e+02
N_{2S}/N_{1S}	3.4196e-01 +/- 6.53e-03
N_{3S}/N_{1S}	2.0701e-01 +/- 5.69e-03
N_{bkg}	2.6347e+04 +/- 3.18e+02
alpha	1.4398e+00 +/- 4.40e-02
bkg_{a1}	1.3065e-01 +/- 1.71e-02

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Example (Results for backward rapidity:)

$p_T \leq 30 \text{ GeV}/c$ and $-2.4 \leq y \leq -0.47$



Fit results using pp data for $\sqrt{s} = 2.76$ TeV

Example (Results for forward rapidity:)

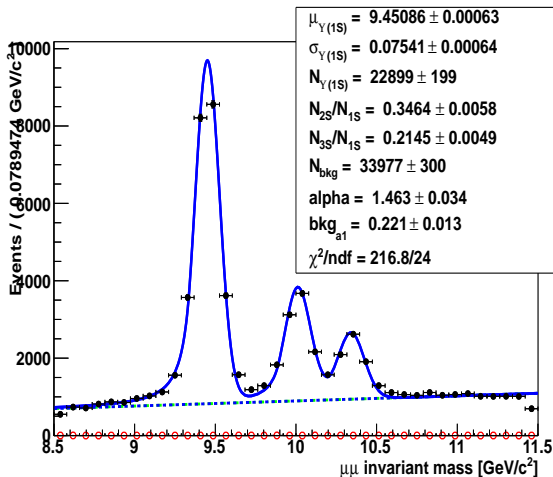
$p_T \leq 30 \text{ GeV}/c$ and $-0.47 \leq y \leq 1.46$ location of the file:
</afs/cern.ch/work/m/mironov/public/oniaMiniTree/>

Floating Parameter	FinalValue +/- Error
$\mu_{\Upsilon(1S)}$	9.4509e+00 +/- 6.30e-04
$\sigma_{\Upsilon(1S)}$	7.5409e-02 +/- 6.44e-04
$N_{\Upsilon(1S)}$	2.2899e+04 +/- 1.99e+02
N_{2S}/N_{1S}	3.4635e-01 +/- 5.76e-03
N_{3S}/N_{1S}	2.1448e-01 +/- 4.87e-03
N_{bkg}	3.3977e+04 +/- 3.00e+02
alpha	1.4631e+00 +/- 3.42e-02
bkg_{a1}	2.2107e-01 +/- 1.26e-02

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Example (Results for forward rapidity:)

$p_T \leq 30 \text{ GeV}/c$ and $-0.47 \leq y \leq 1.46$



Conclusions

- Try similarly for pPb at $\sqrt{s} = 5.02$ TeV.
- Increase the order of the polynomial.
- Try other background models