Stage2 luminosity in the data

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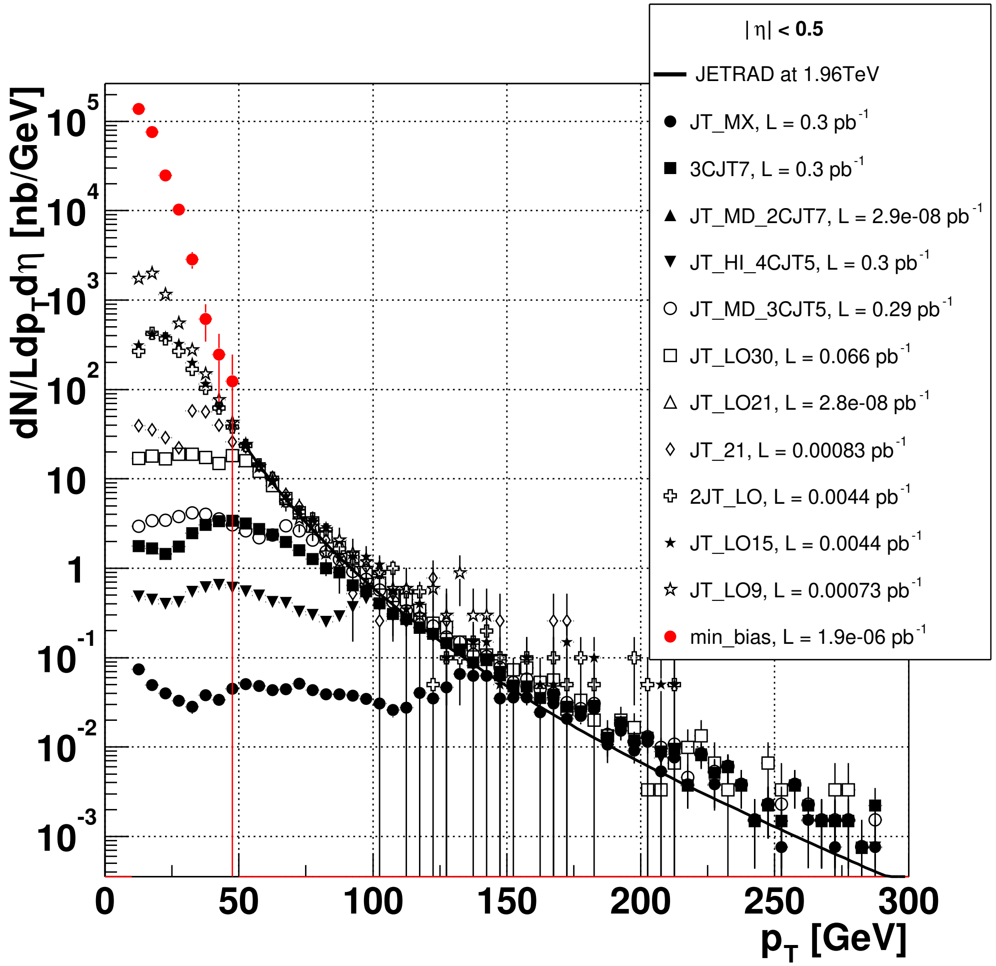
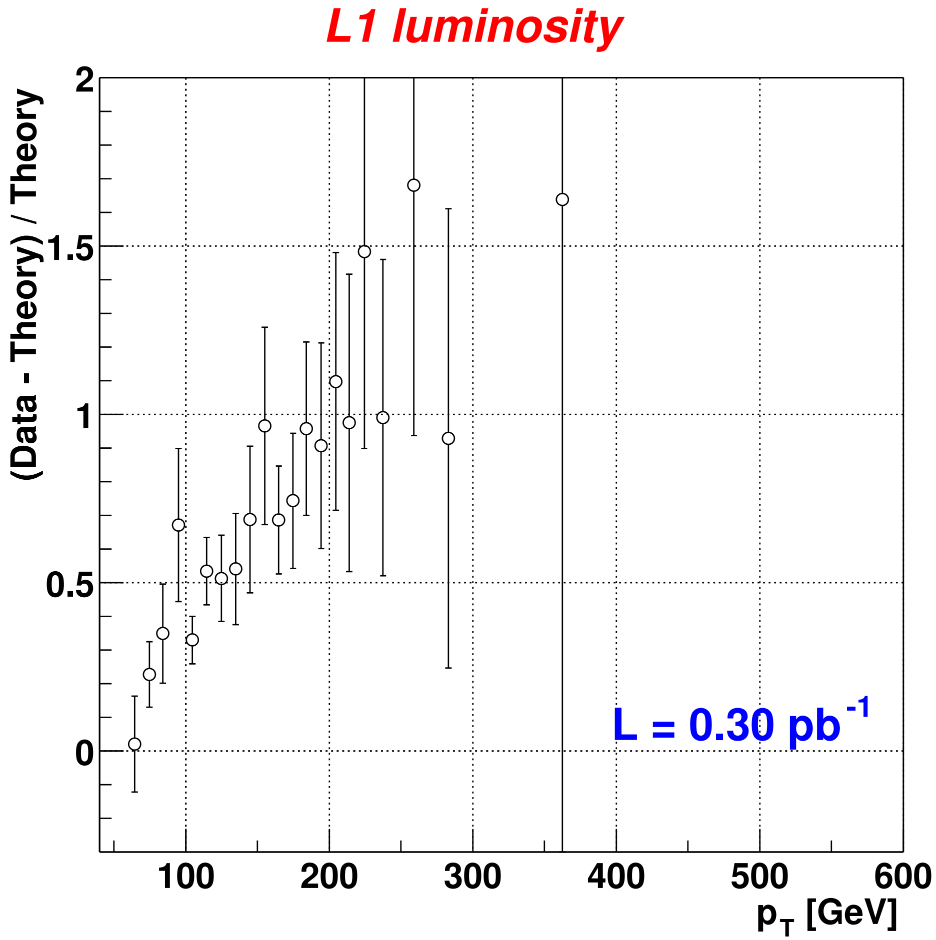
p10.14.01 sample

- 9 runs from 145890 (Feb 10) to 147355 (Feb 24)
- stripped ROOT-tuples (based on triggers)
  - `min_bias` and jet triggers
  - check made on files with larger set of triggers (`zero_bias`)
- 378378 good LBNs (at L1 for `min_bias`) out of 463322
  - same good LBNs ar Recorded level
  - new 528 bad LBN on Reconstructed level

	L1	Record	RecoA
#events (mbias)	75866	75866	75746
$\mathcal{L}$ (mbias)	$1.926\,\mu\mathrm{b}^{-1}$	$1.909\,\mu\mathrm{b}^{-1}$	$1.907\,\mu\mathrm{b}^{-1}$
σ (mbias)	39.39 mb	39.73 mb	39.73 mb
$\mathcal{L}$ (JT_HI_4CJT5)	$296\,\mathrm{nb}^{-1}$	$293\,\mathrm{nb}^{-1}$	$293\,\mathrm{nb}^{-1}$

jet inclusive pT spectrum in p10.14.01 sample





jet inclusive p_T spectrum

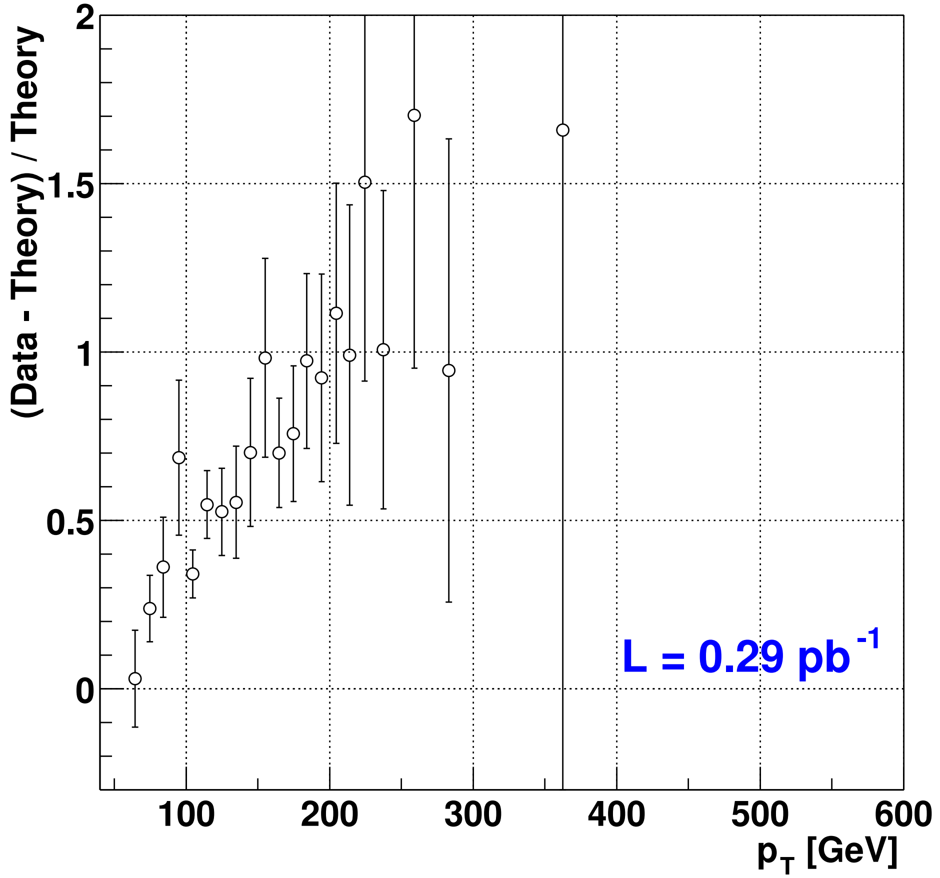
- trigger matching

$$\sigma_{65} = 7.57 \pm 1.06\,\text{nb}^{-1}\,\text{GeV}^{-1}$$

$$\sigma_{65}^{corr} = 8.32\,\text{nb}^{-1}\,\text{GeV}^{-1}$$

jet inclusive pT spectrum in p10.14.01 sample

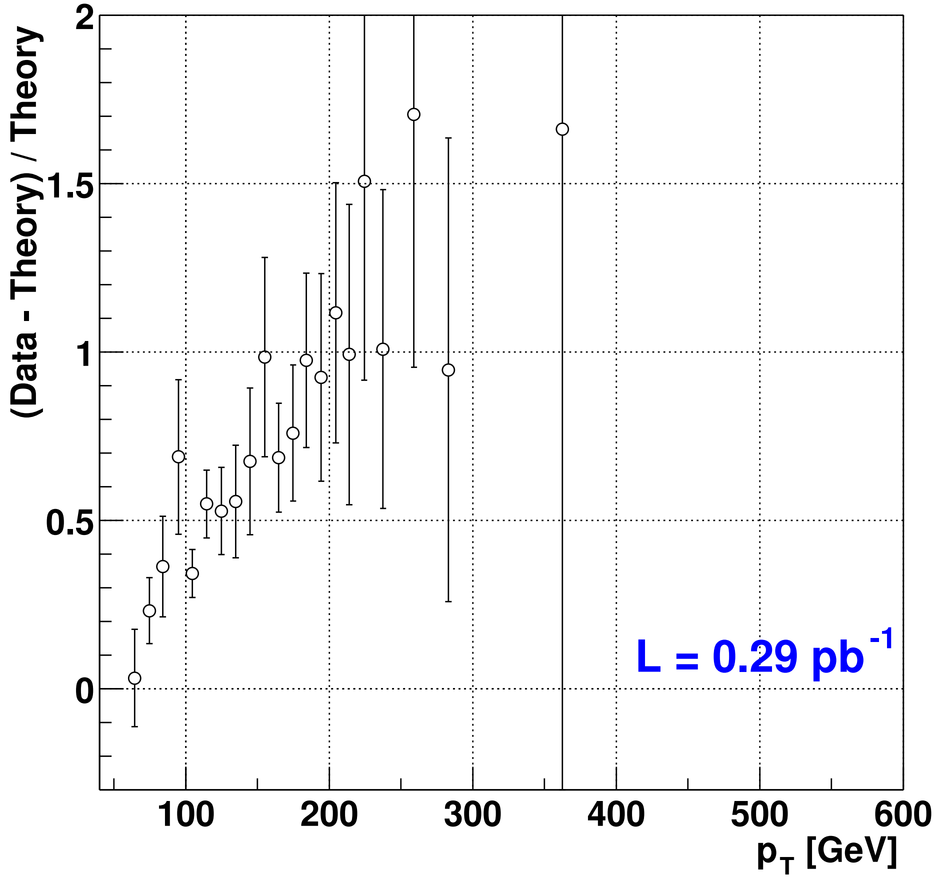
Recorded luminosity



$$\sigma_{65} = 7.64 \pm 1.07\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$$

$$\sigma_{65}^{corr} = 8.33\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$$

Reconstructed luminosity



$$\sigma_{65} = 7.65 \pm 1.07\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$$

$$\sigma_{65}^{corr} = 8.33\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$$

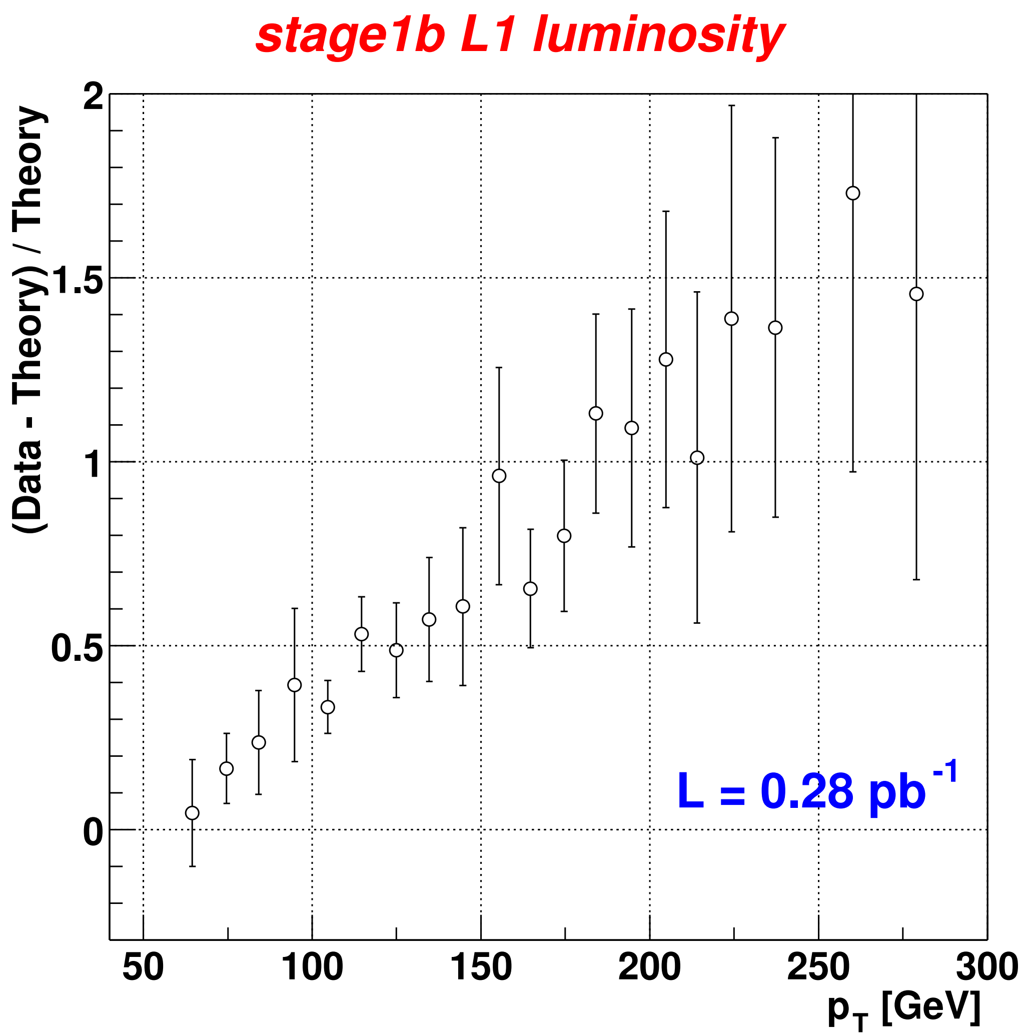
stage1b luminosity for p10.14.01 sample

- JT_HI_4CJT5 luminosity

$$\mathcal{L} = 0.284\,\mathsf{pb}^{-1}$$

- min_bias cross section

$$\sigma_{mb} = 38.8\,\mathsf{mb}$$



$$\sigma_{65} = 7.75 \pm 1.07\,\mathsf{nb}^{-1}\,\mathsf{GeV}^{-1}$$

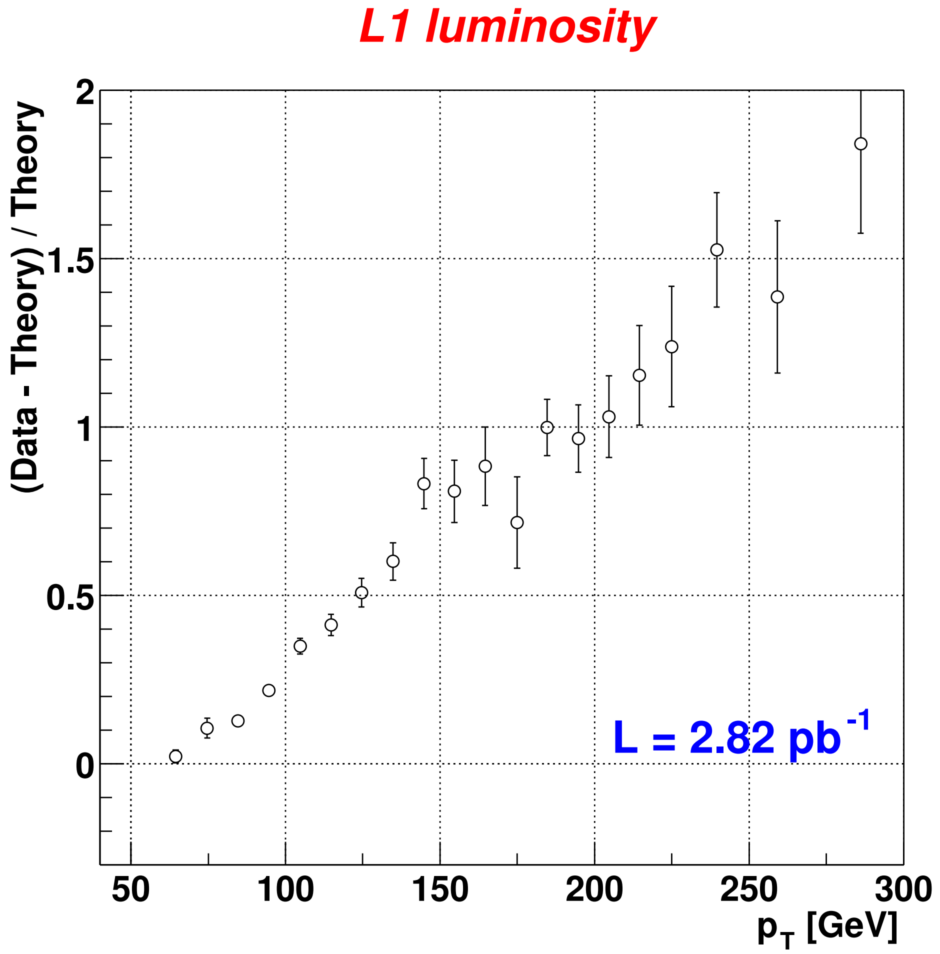
$$\sigma_{65}^{corr} = 8.65\,\mathsf{nb}^{-1}\,\mathsf{GeV}^{-1}$$

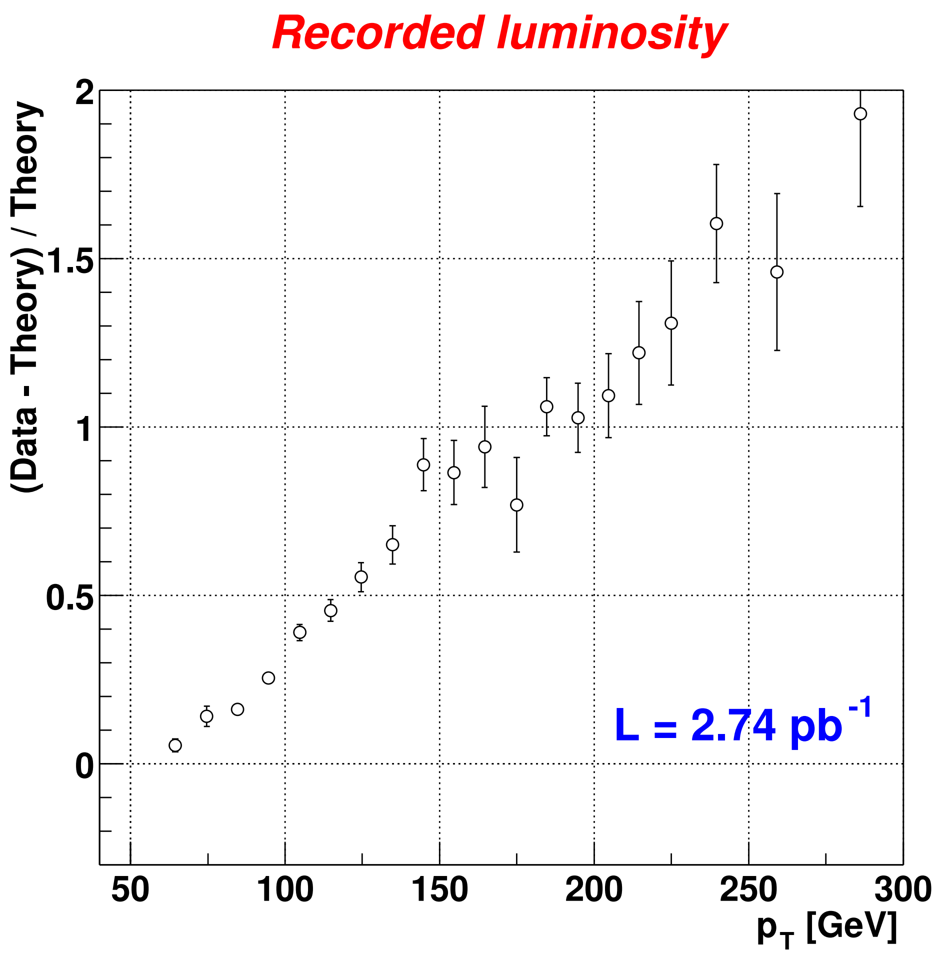
p10.15.01 sample

- 134 runs from 149269 (March 22) to 153368 (May 4)
- trigger version 5
- stripped ROOT-tuples (based on triggers)
- 485870 good LBNs (at Recorded level for `min_bias`) out of 583966

	L1	Record	RecoA
#events (mbias)	234694	234694	26
$\mathcal{L}$ (mbias)	$6.234\,\mu b^{-1}$	$6.044\,\mu b^{-1}$	$0.699\,mb^{-1}$
σ (mbias)	$37.65\,mb$	$38.82\,mb$	$37.20\,mb$
$\mathcal{L}$ (JT_65TT)	$2.825\,nb^{-1}$	$2.740\,nb^{-1}$	
$\mathcal{L}$ (JT_95TT)	$2.899\,nb^{-1}$		
$\mathcal{L}$ (JT_125TT)	$2.907\,nb^{-1}$		

jet inclusive pT spectrum in p10.15.01 sample





$\sigma_{65} = 7.56 \pm 0.14\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$ $\sigma_{65} = 7.82 \pm 0.14\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$

$\sigma_{65}^{corr} = 8.70\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$ $\sigma_{65}^{corr} = 8.72\,\mathrm{nb}^{-1}\,\mathrm{GeV}^{-1}$

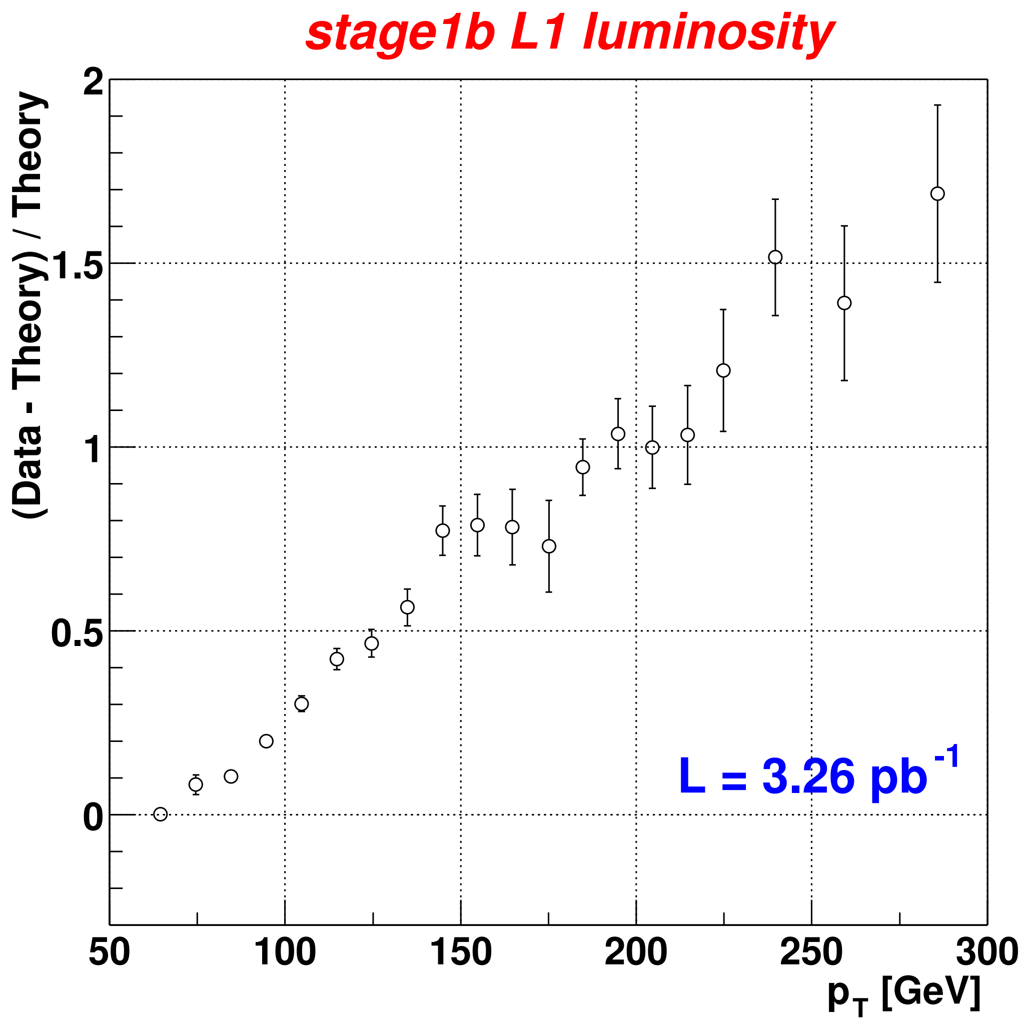
stage1b luminosity for p10.15.01 sample

- JT_65TT luminosity

$$\mathcal{L} = 3.261\,\mathsf{pb}^{-1}$$

- min_bias cross section

$$\sigma_{mb} = 36.8\,\mathsf{mb}$$



$$\sigma_{65} = 7.42 \pm 0.12\,\mathsf{nb}^{-1}\,\mathsf{GeV}^{-1}$$

$$\sigma_{65}^{corr} = 8.73\,\mathsf{nb}^{-1}\,\mathsf{GeV}^{-1}$$