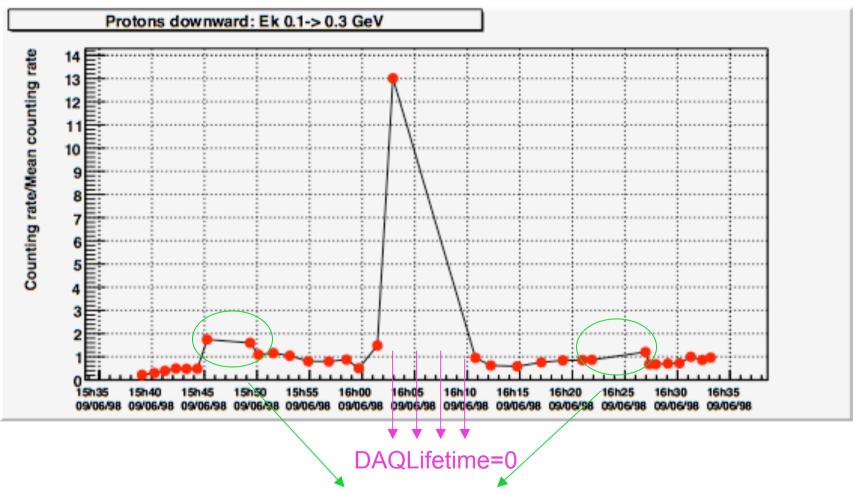
Search for time-dependent fluctuations in cosmic rays spectra with the AMS01 detector

Flux fluctuations:

Data taking period: 9/06/98 15h39-> 16h34 AMS Z-axis pointing 1° within Zenith:

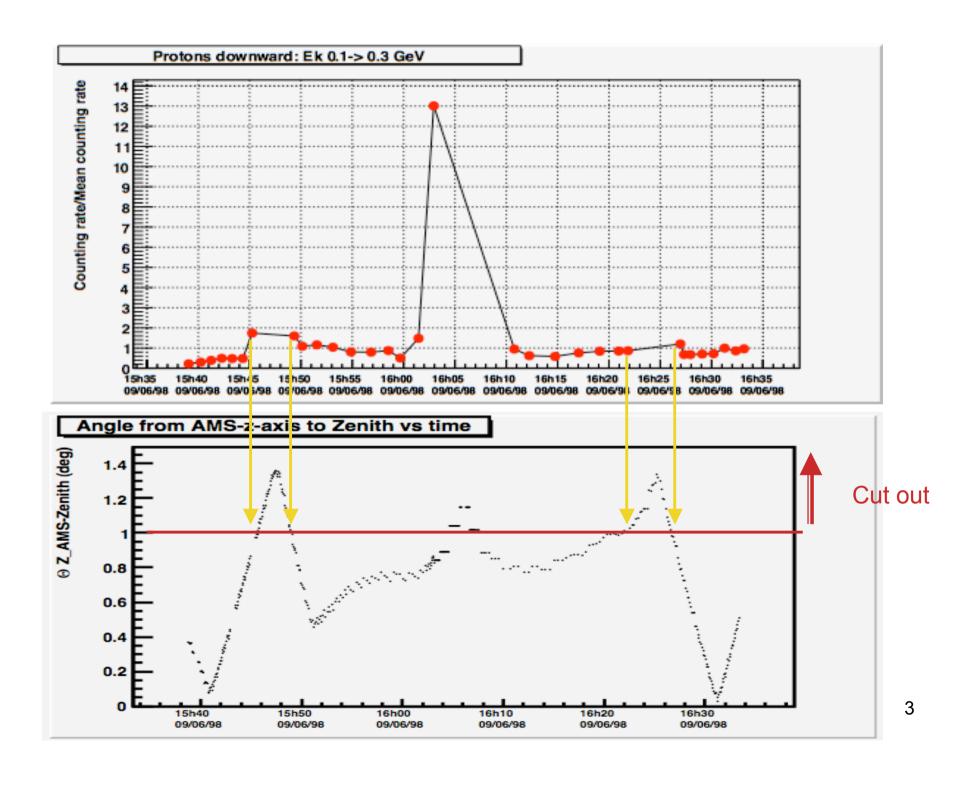
New binning for actual flux: ∆T~1 min

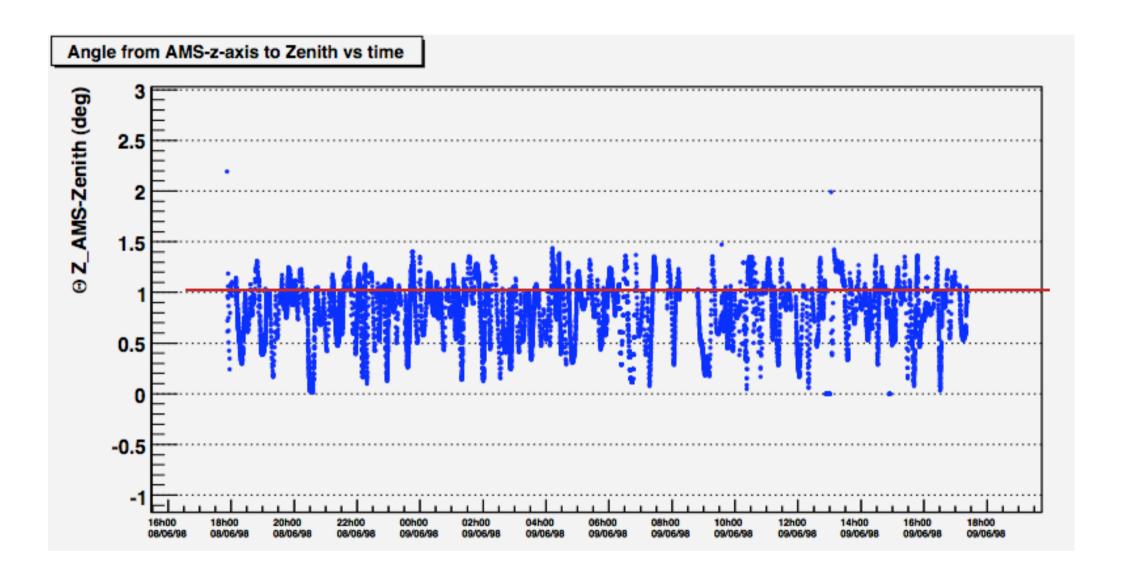
New binning for actual flux: ∆T~1 min

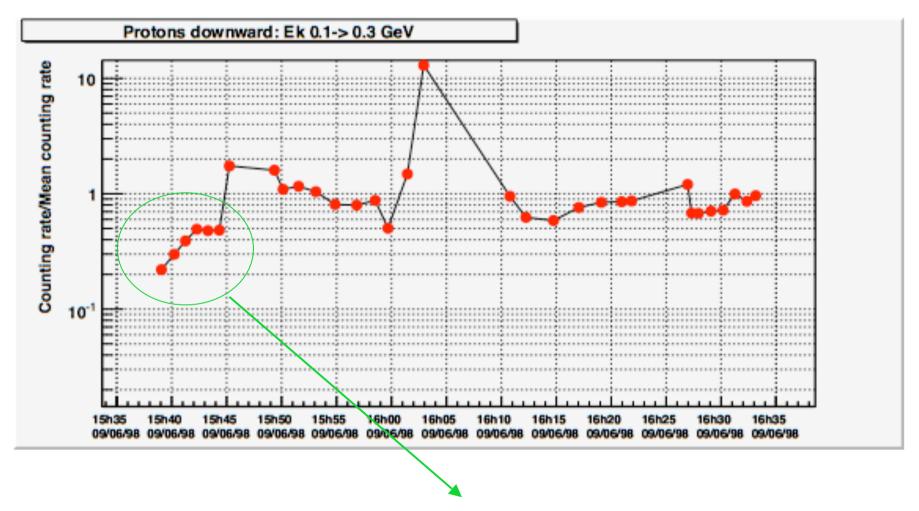


Pointing cut

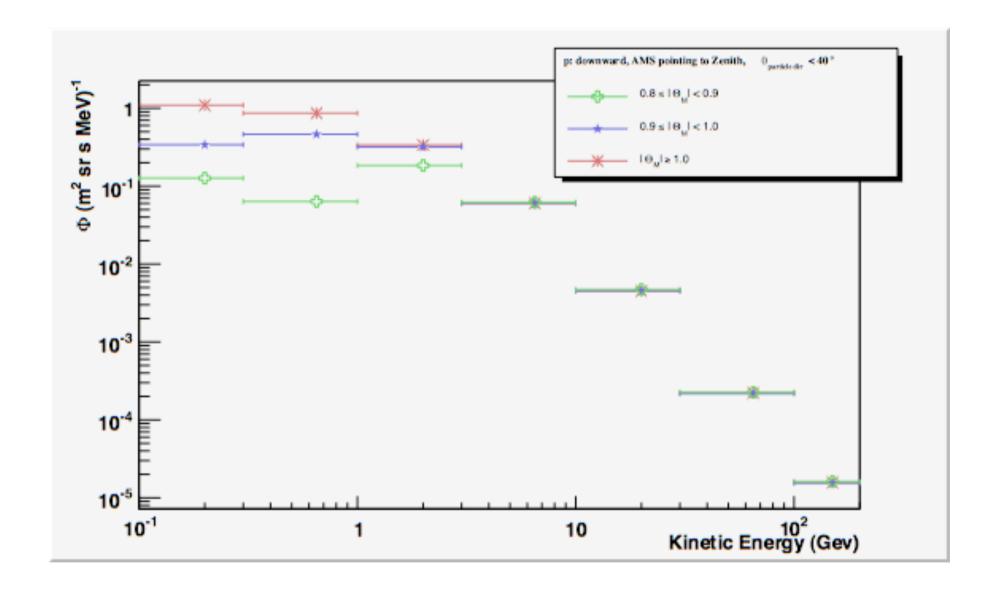
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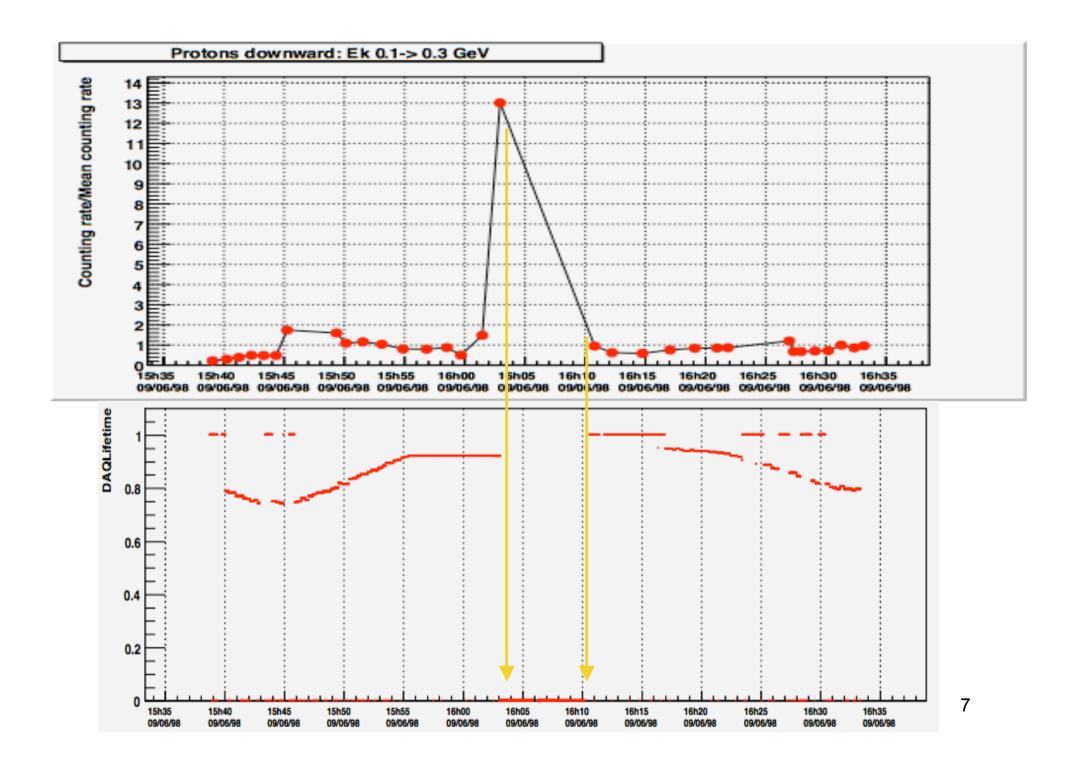


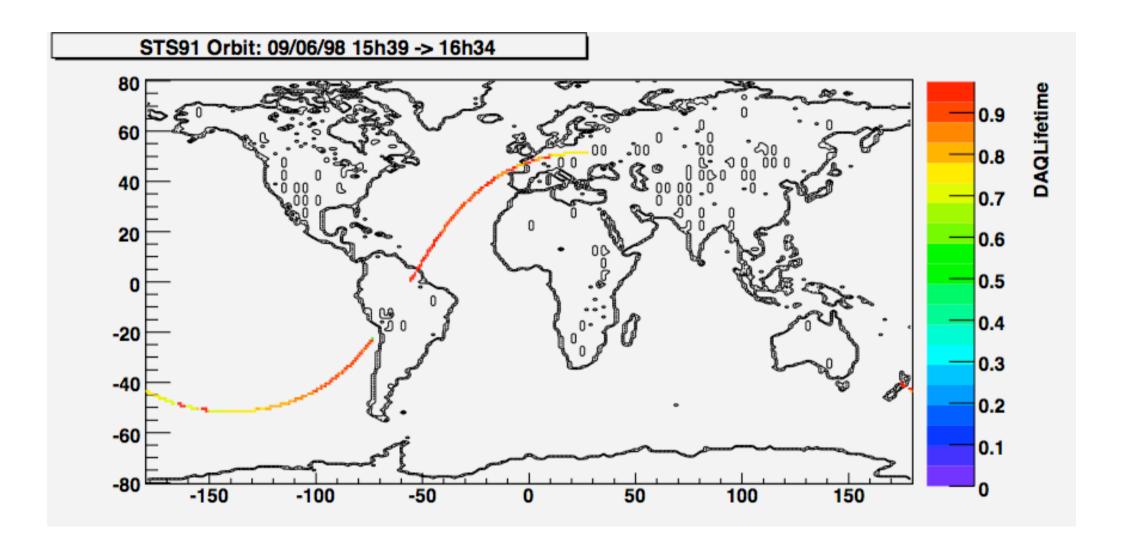




Too large Θ_{M} bin (0.8- Θ_{M}^{max})

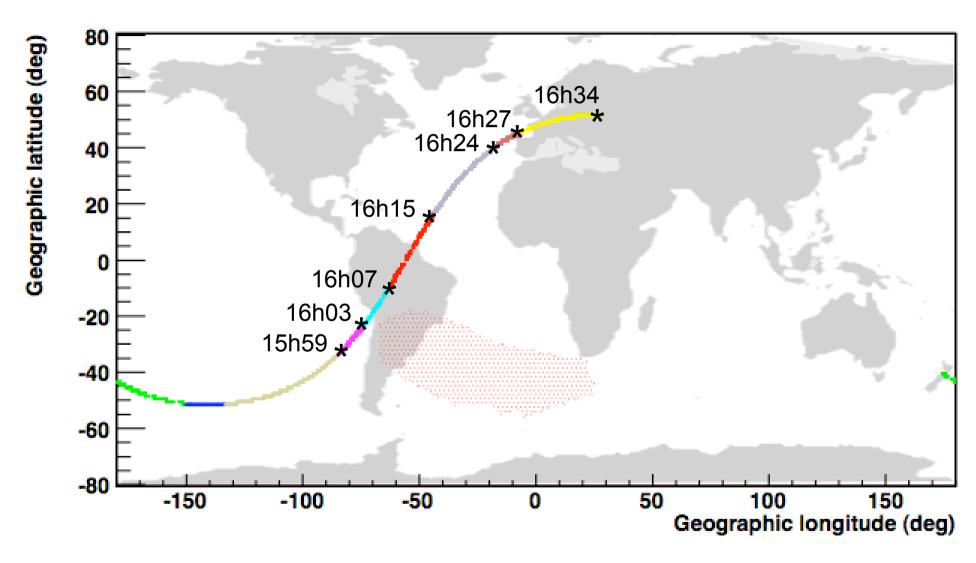






STS-91 Orbit 09/06/1998 15h39-> 16h34

SAA from STS-91 Shuttle Mission Plotting Chart (160 n.m. altitude no minimum flux)



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SAA definition

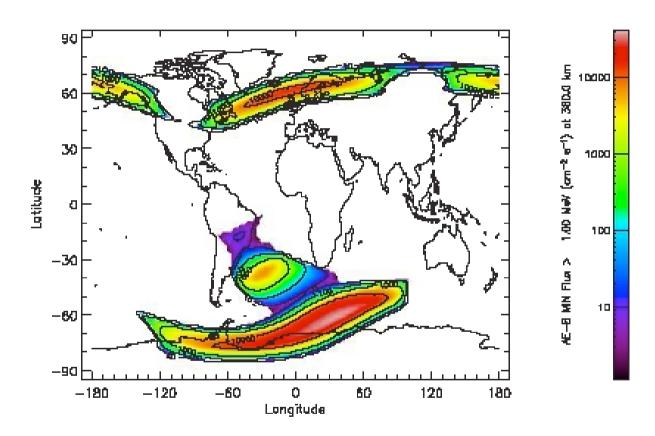
Electrons minimum flux

OR

• Protons minimum flux

OR

Local magnetic field value



SAA + Polar: Electrons > 1MeV at 380km altitude

SAA definition

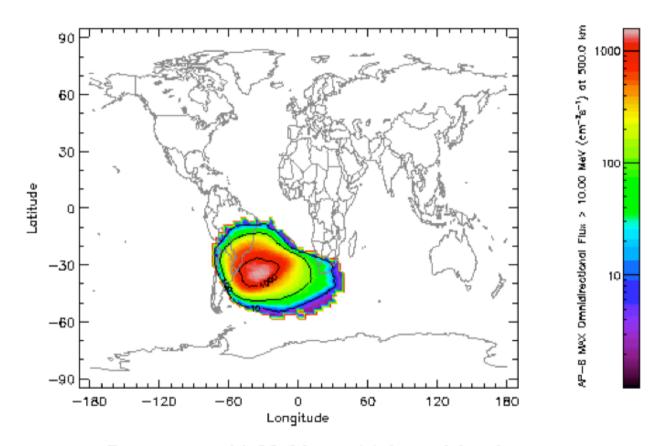
Electrons minimum flux

OR

Protons minimum flux

OR

Local magnetic field value



Protons > 10 MeV at 500 km altitude

SAA definition

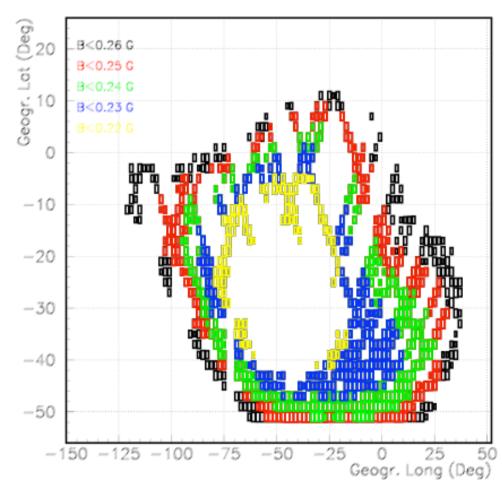
Electrons minimum flux

OR

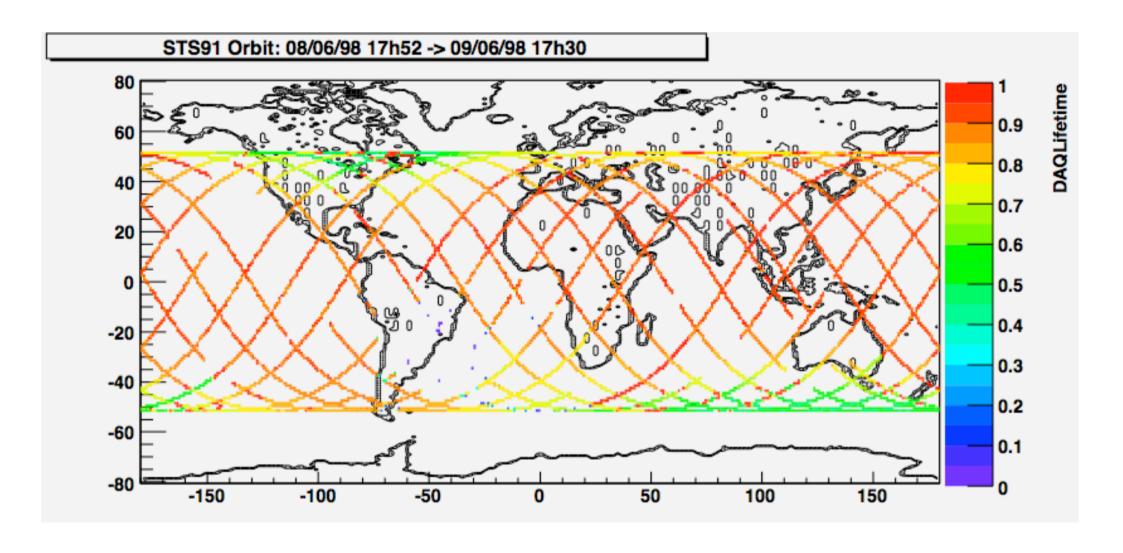
Protons minimum flux

OR

Local magnetic field value

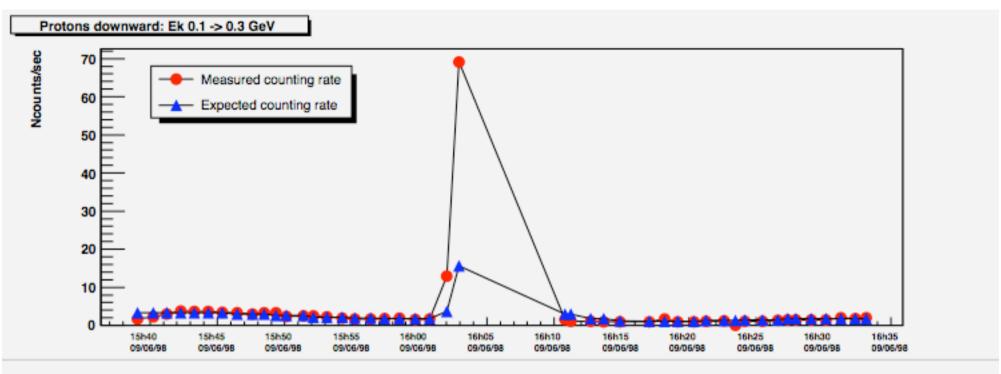


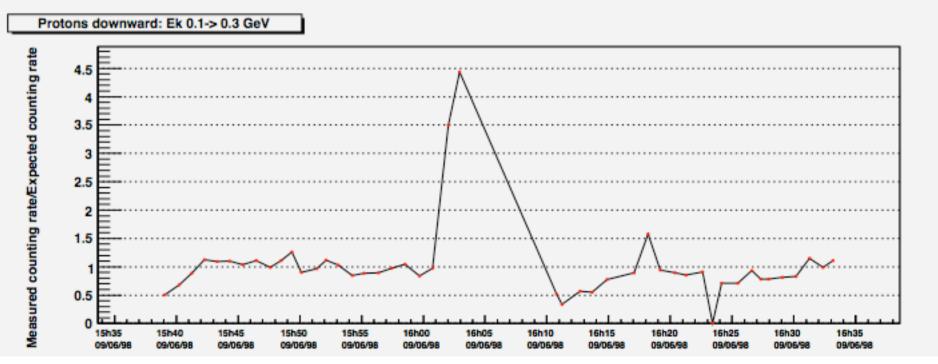
E.Fiandrini - Leptons with E>200 MeV trapped In the South Atlantic Anomaly

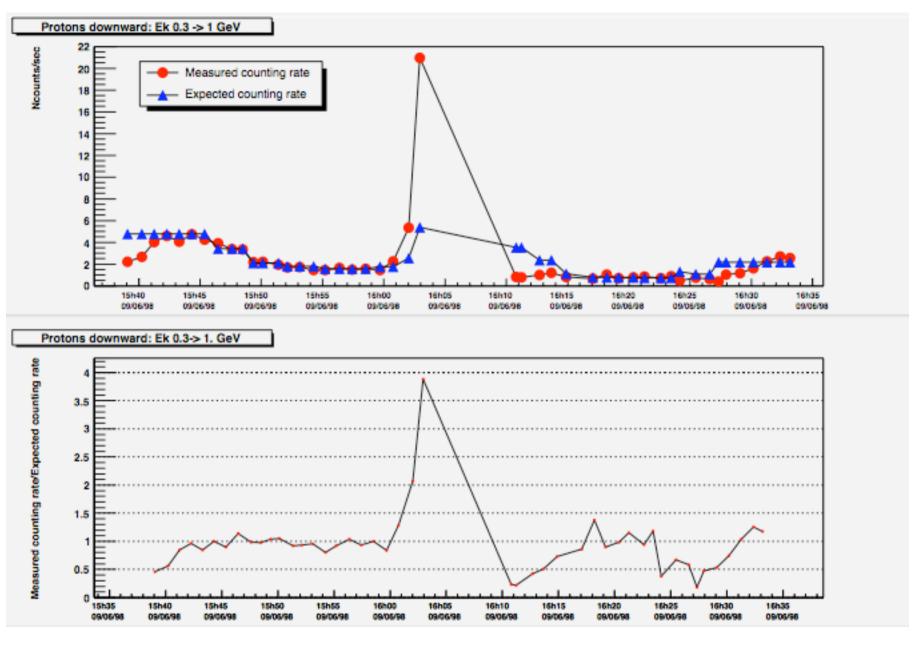


Meanflux reloaded

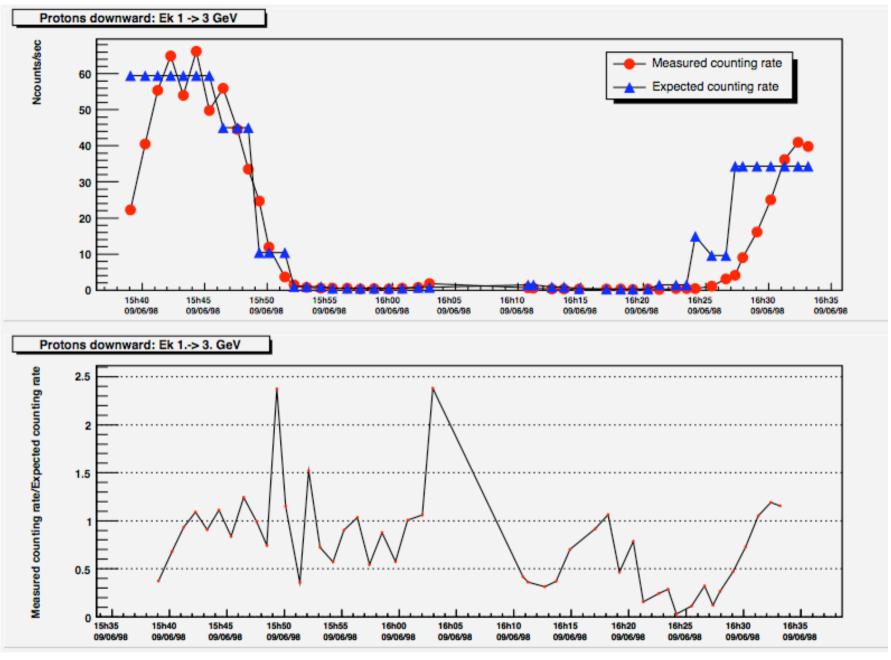
- 1. Looser pointing cut: Zenith±2°
- 2. New binning Θ_{M} : step 0.1 (instead of 0.4)
- 3. SAA not excluded



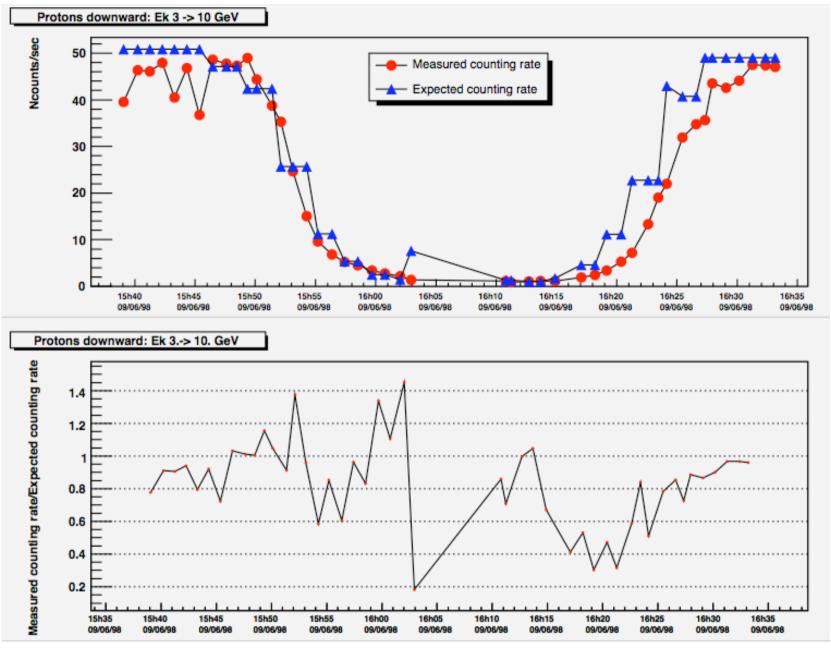




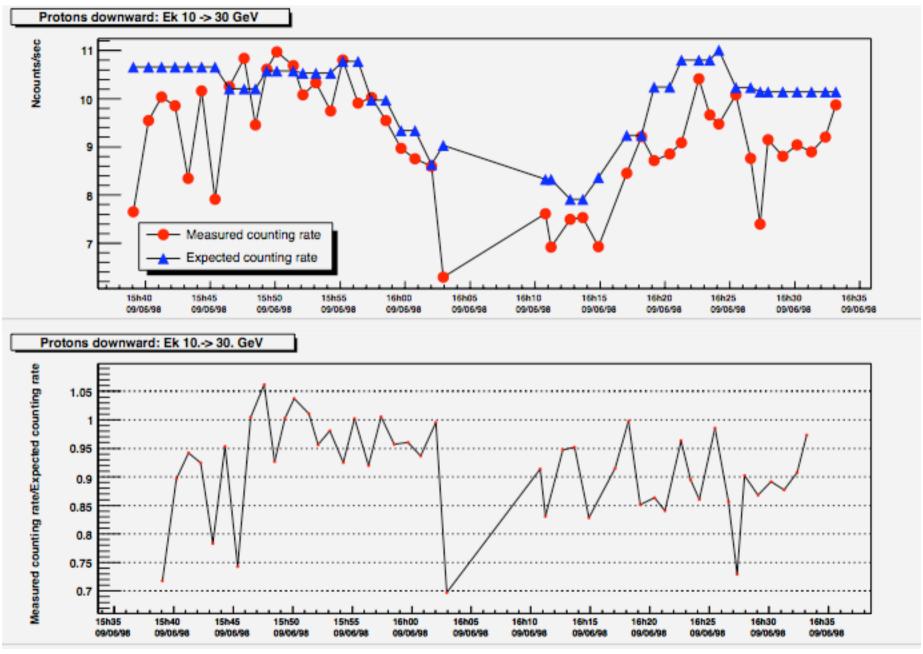
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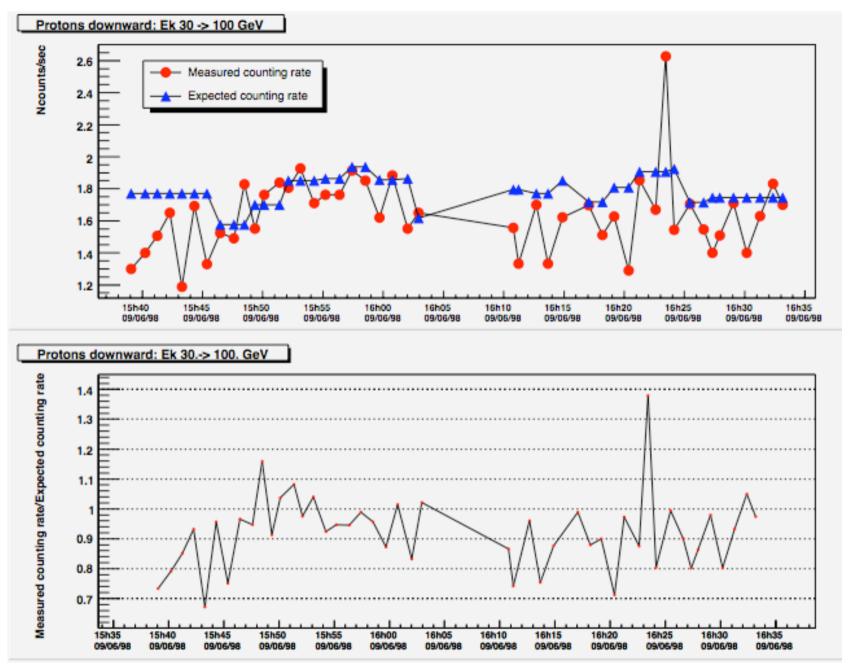


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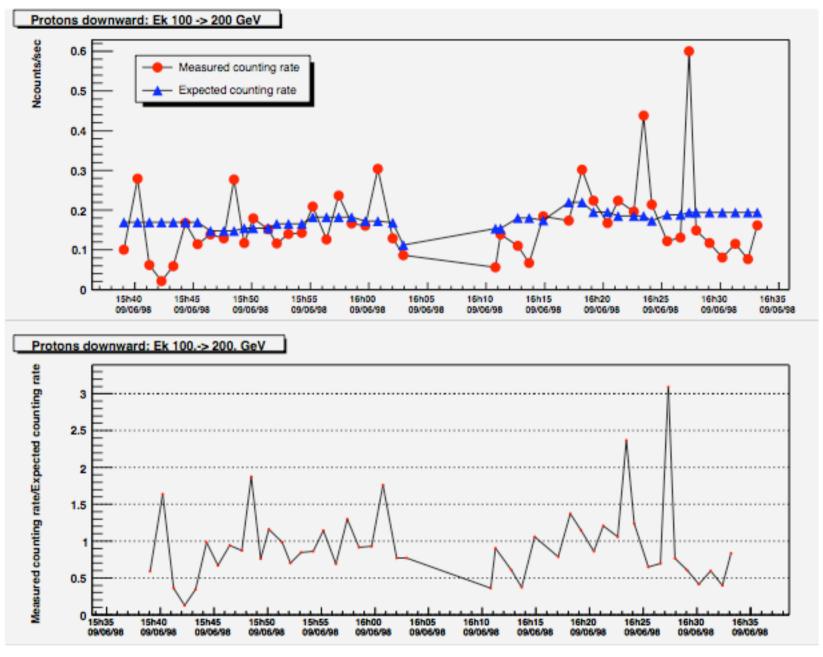


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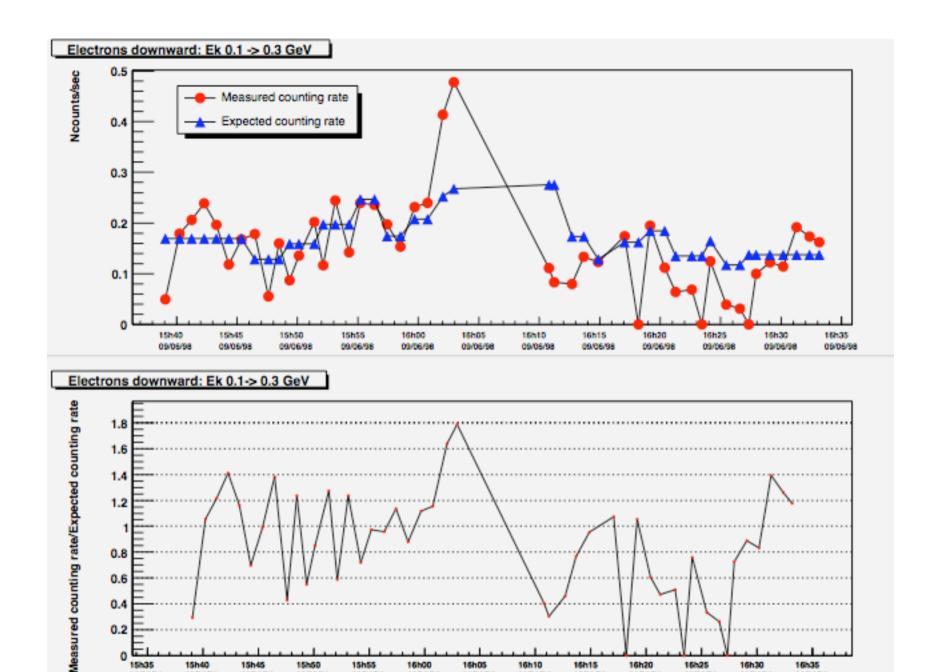
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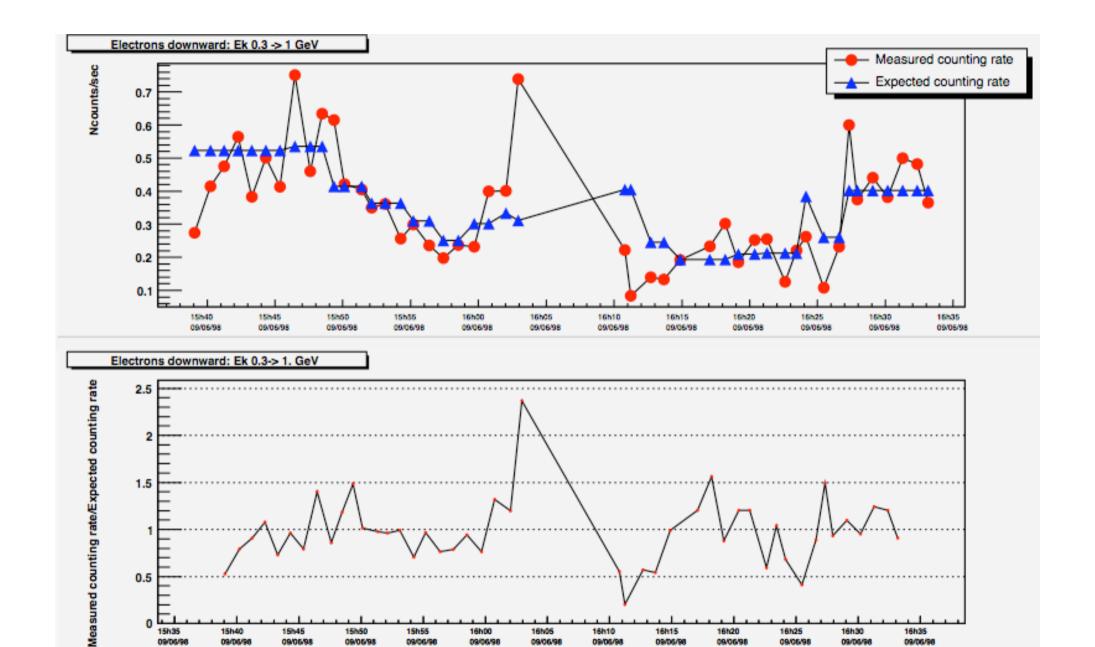
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09/06/98

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09/06/98



15h40

09/06/98

15h45

09/06/98

15h50

09/06/98

15h55

09/06/98

16h00

09/06/98

15h35

09/06/98

0.5

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16N05

09/06/98

16h10

09/06/98

16h15

09/06/98

16h20

09/06/98

16h25

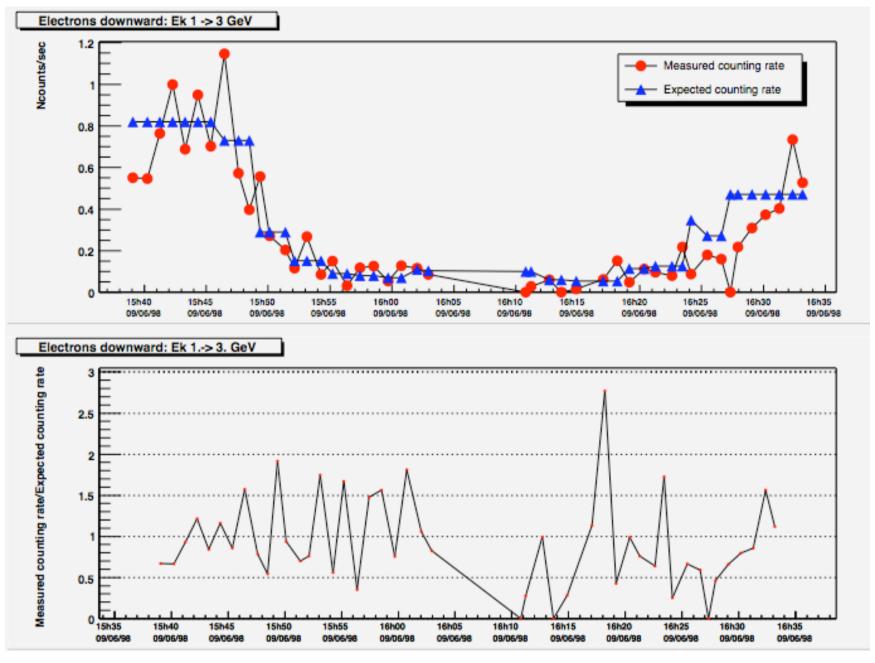
09/06/98

16h30

09/06/98

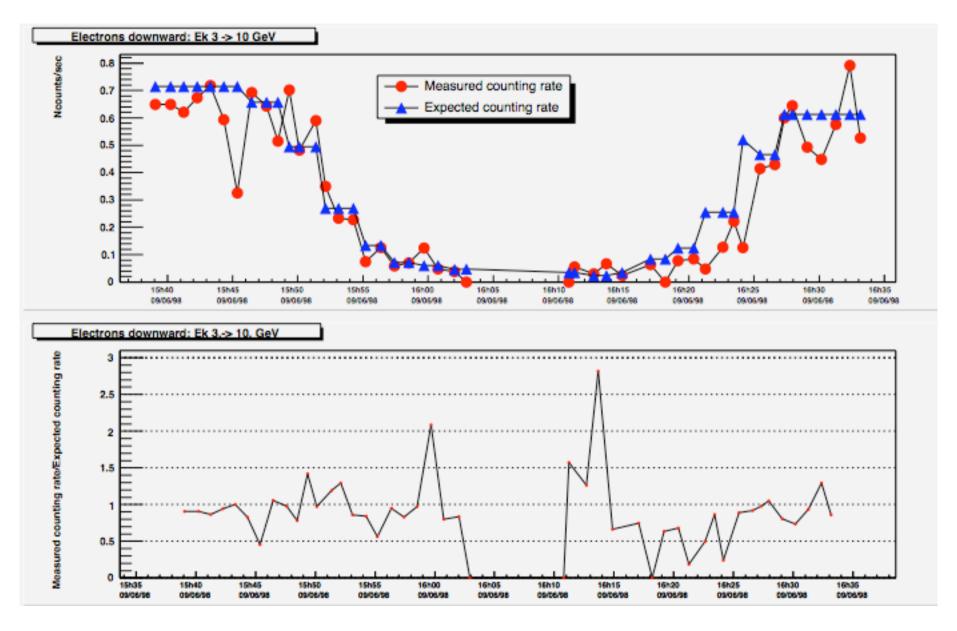
16h35

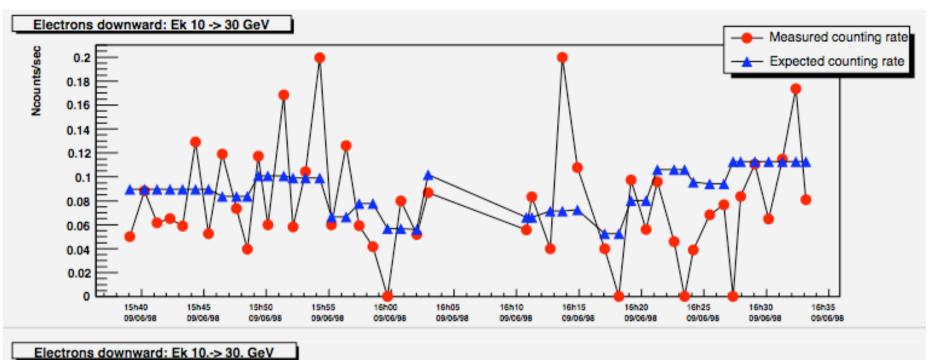
09/06/98

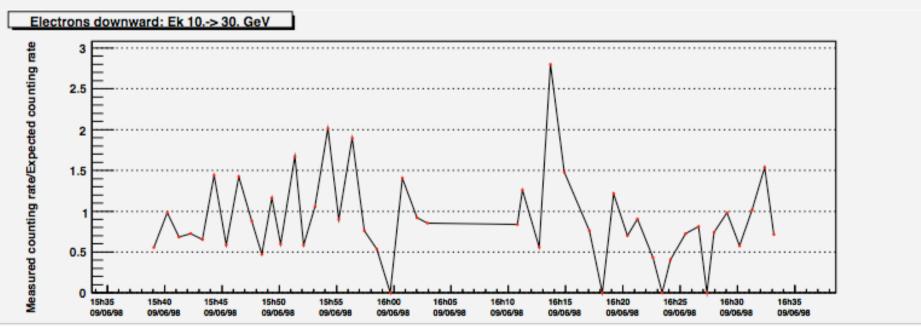


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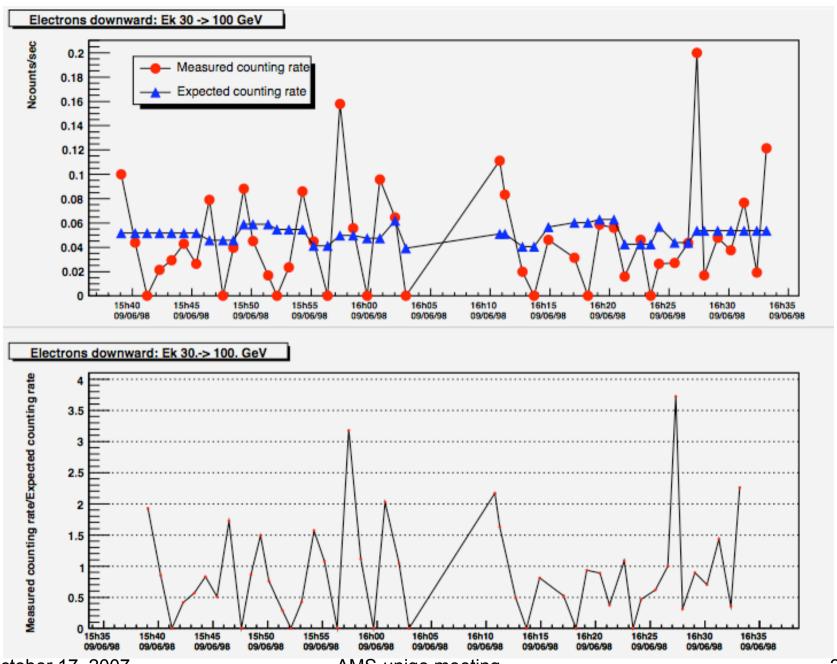




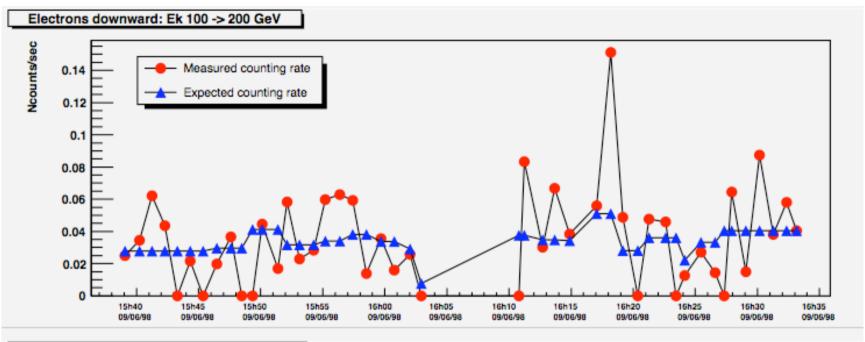


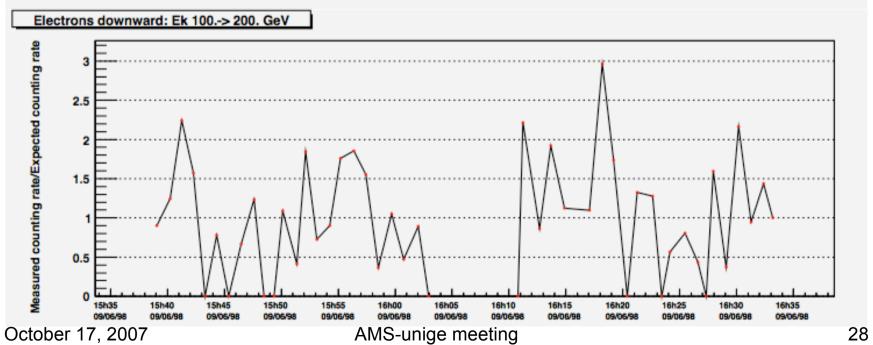
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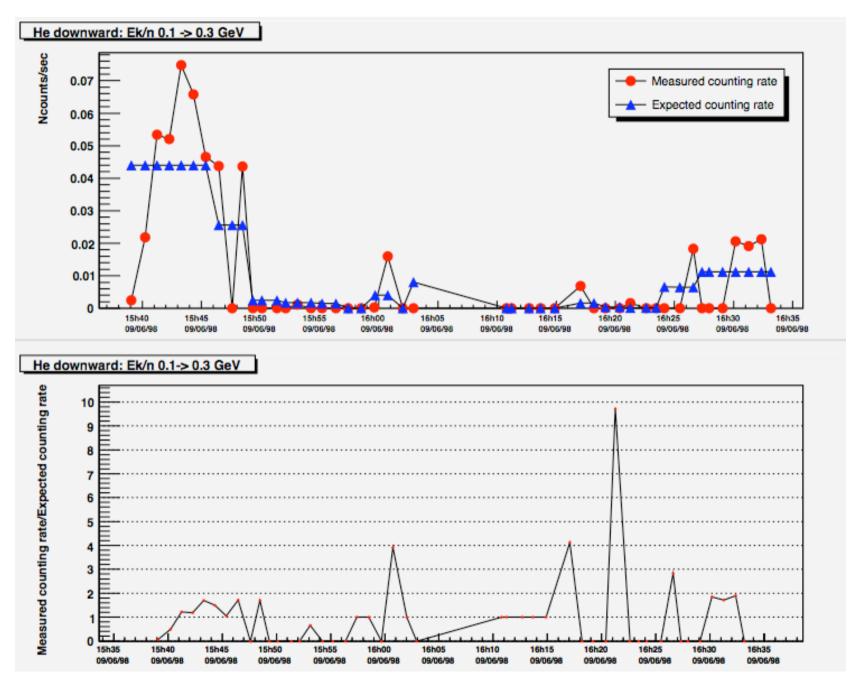
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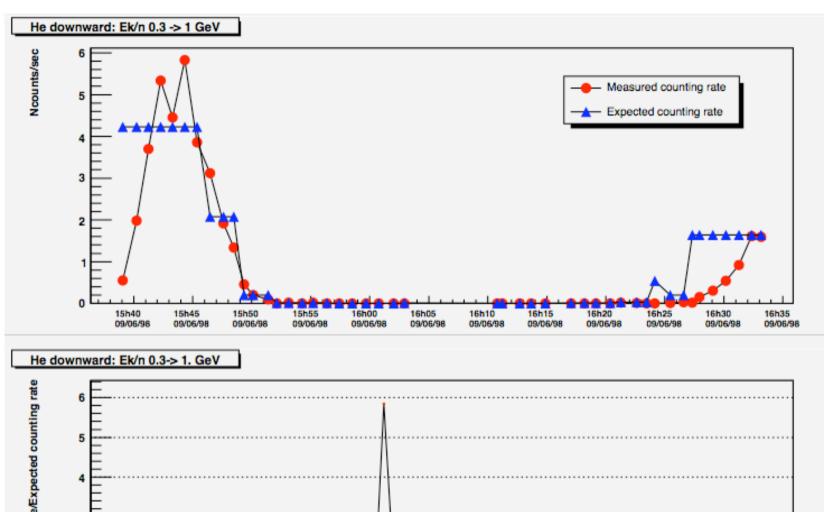
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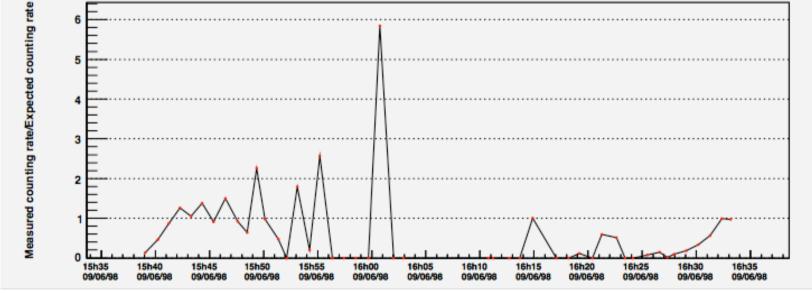




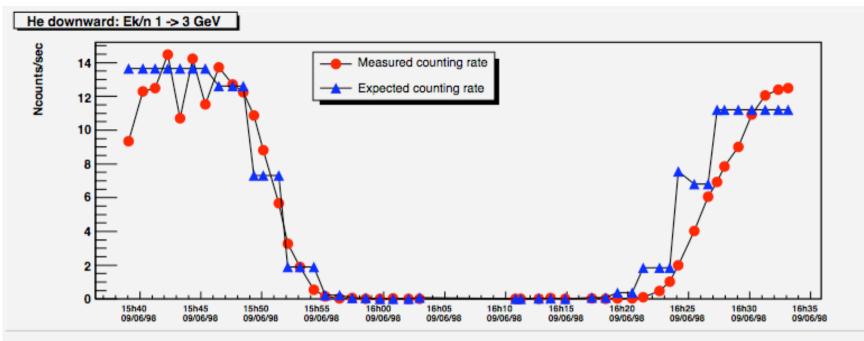


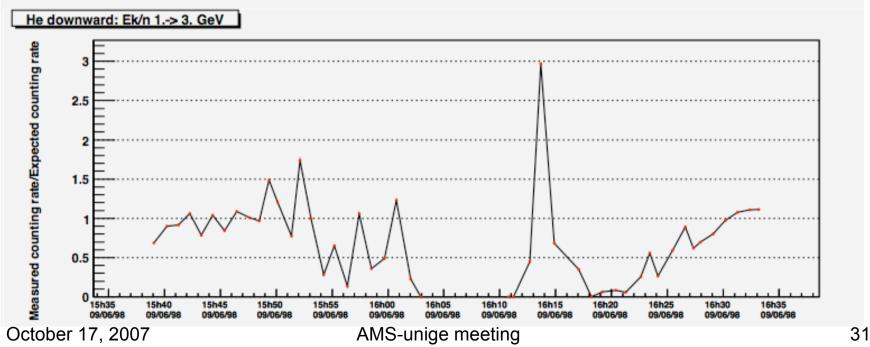
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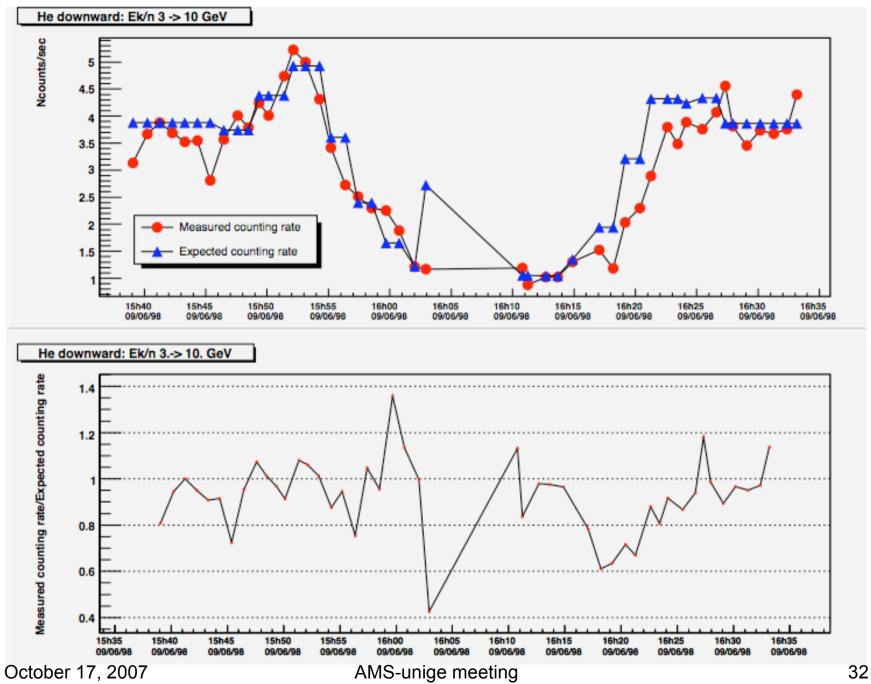


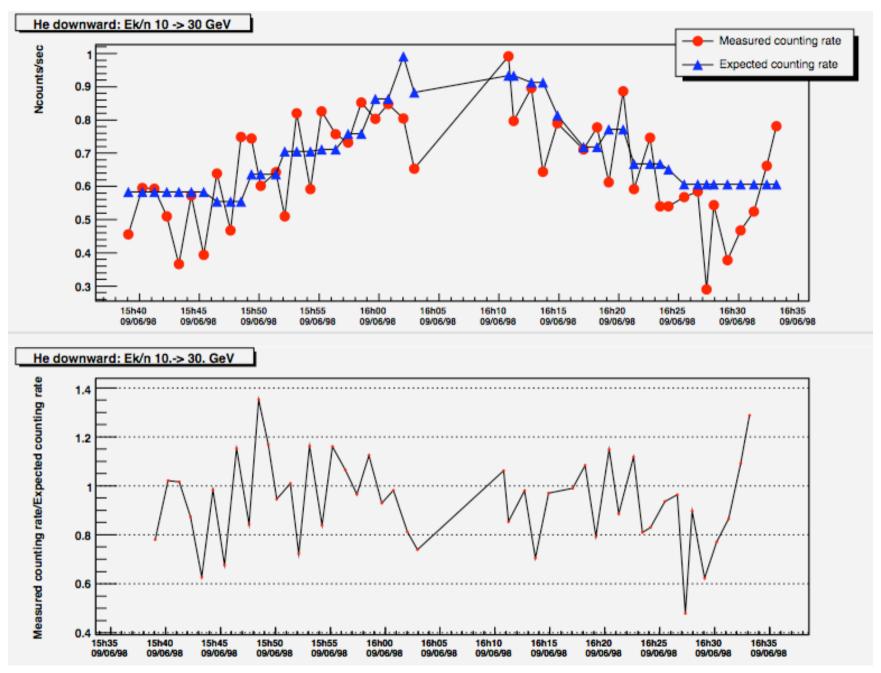


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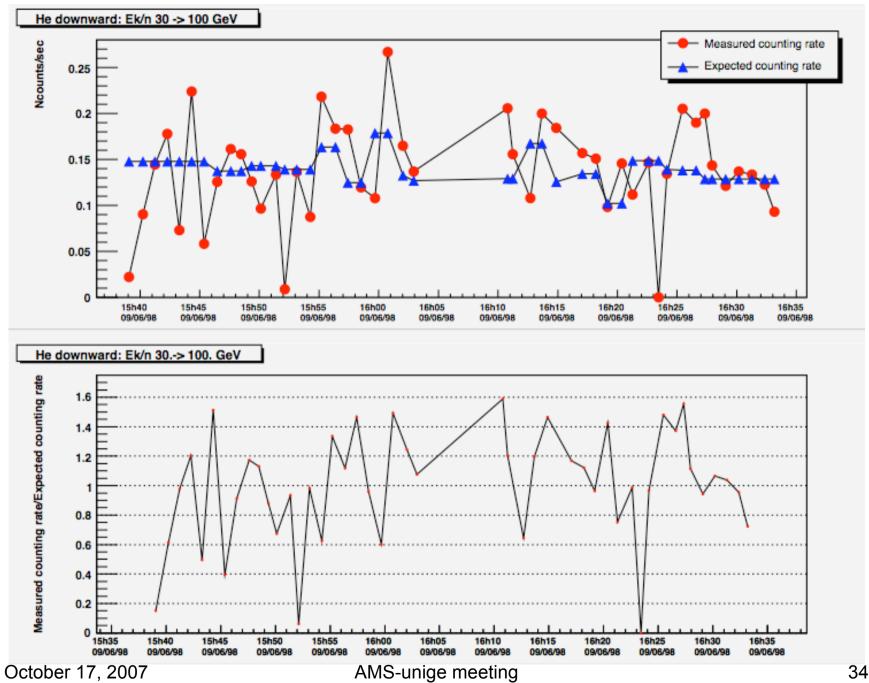




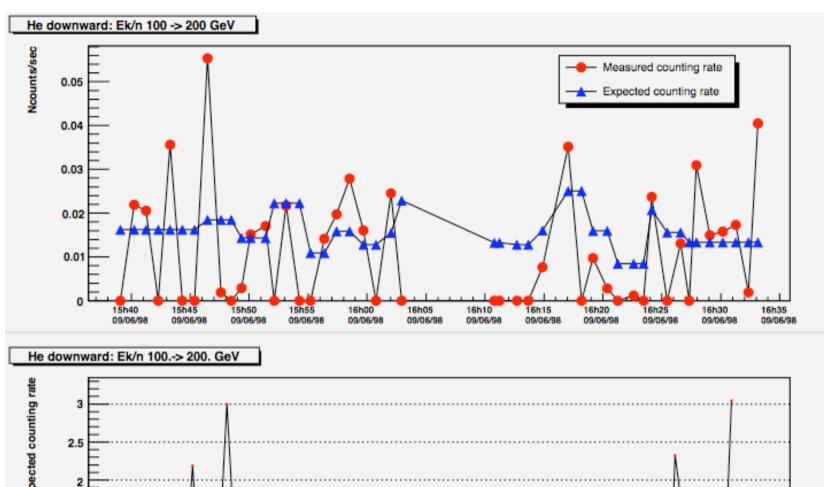


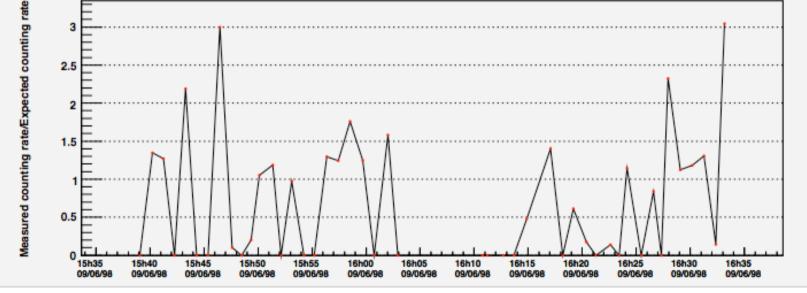


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