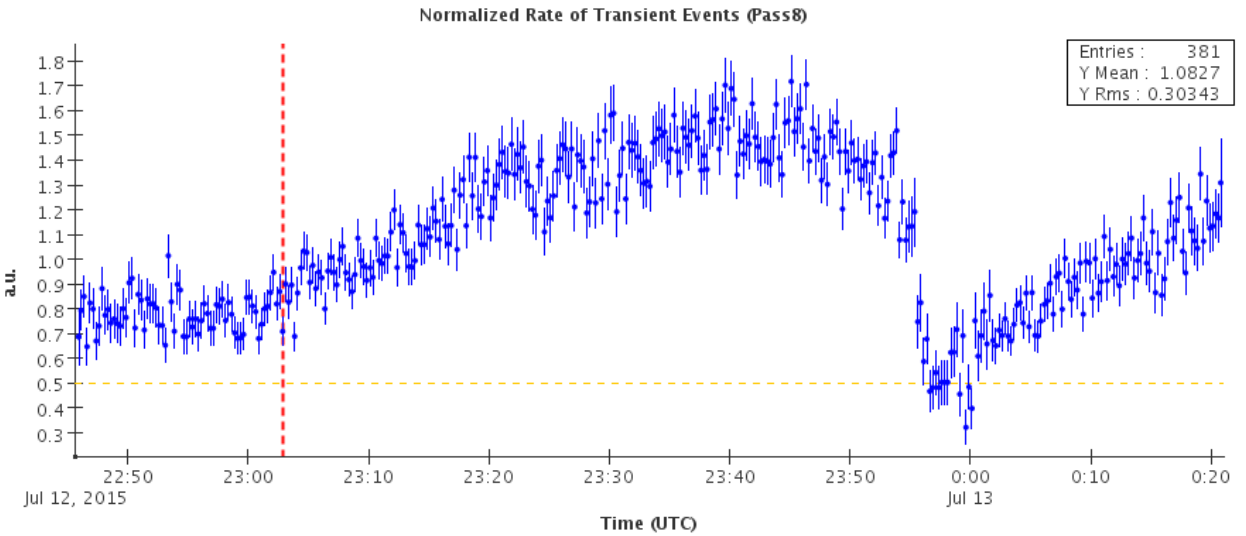
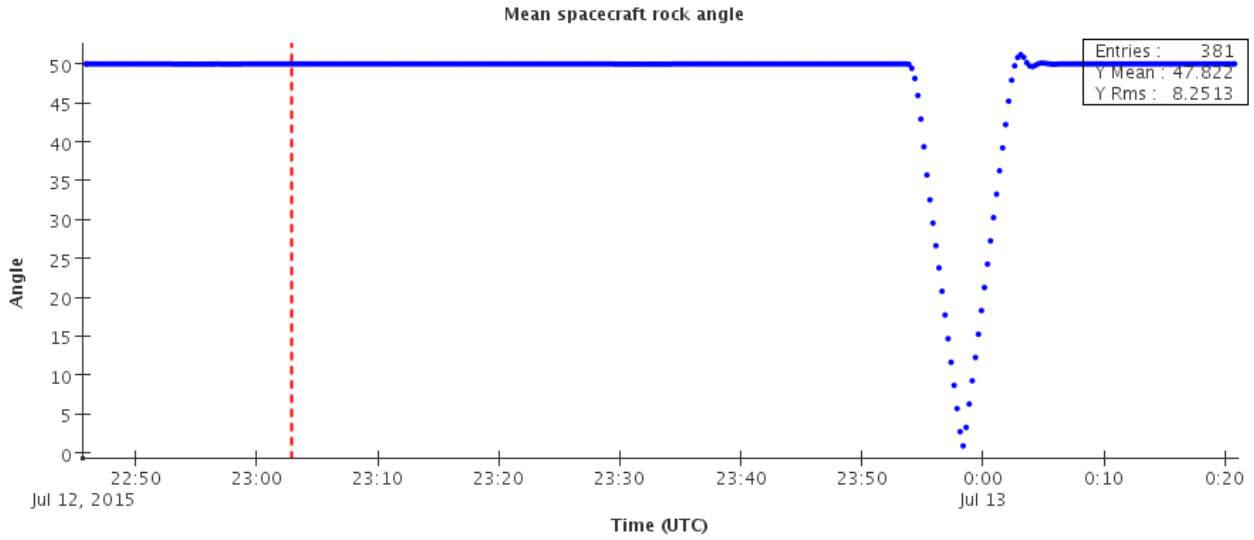
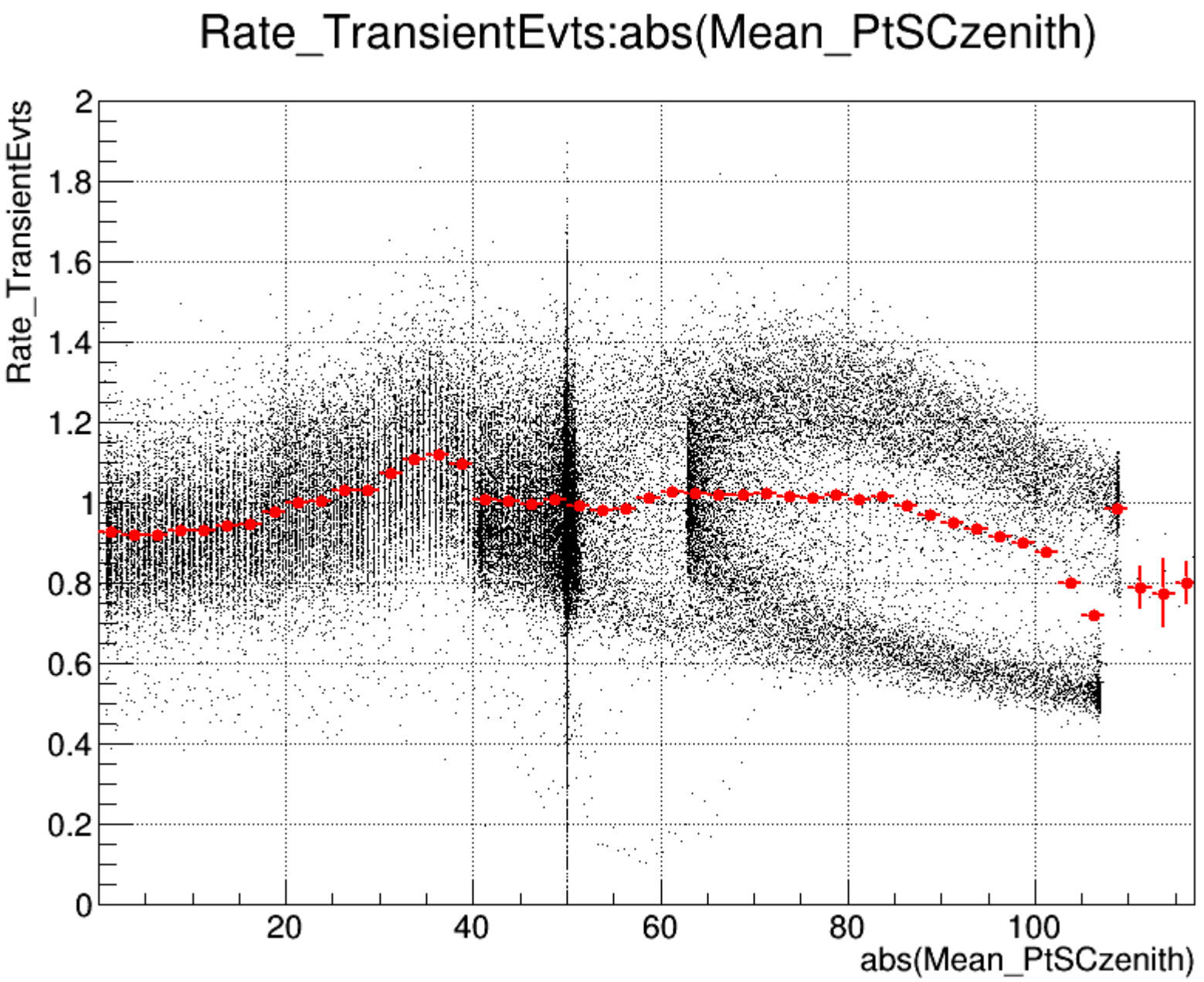
TransientEvents: example of a “bad” Earth limb correction...



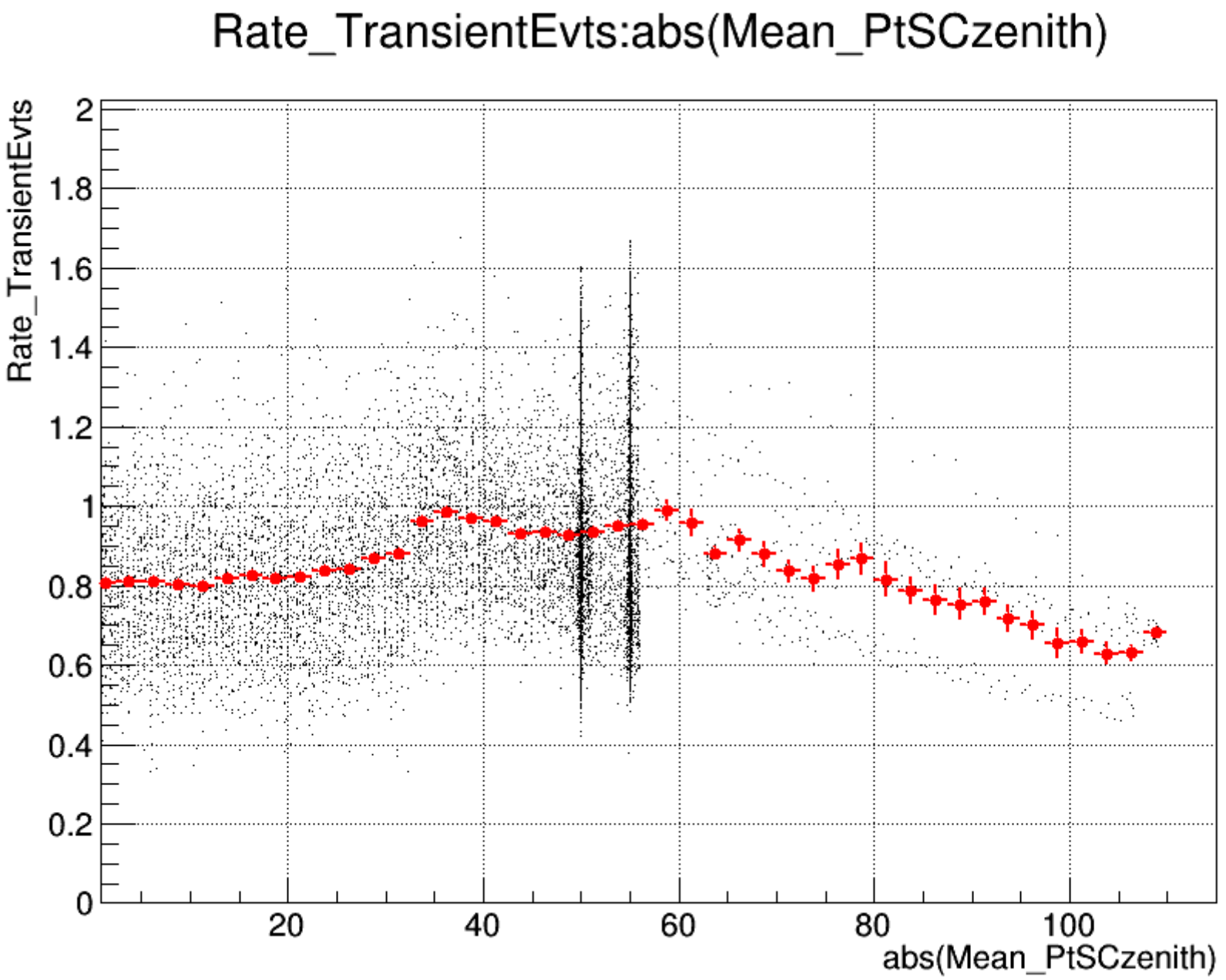


Such jumps in the normalized rate during rock angle changes are present in many runs, event if they usually don't trigger any alarm

TransientEvents: after Earth Limb correction – old (Pass7)

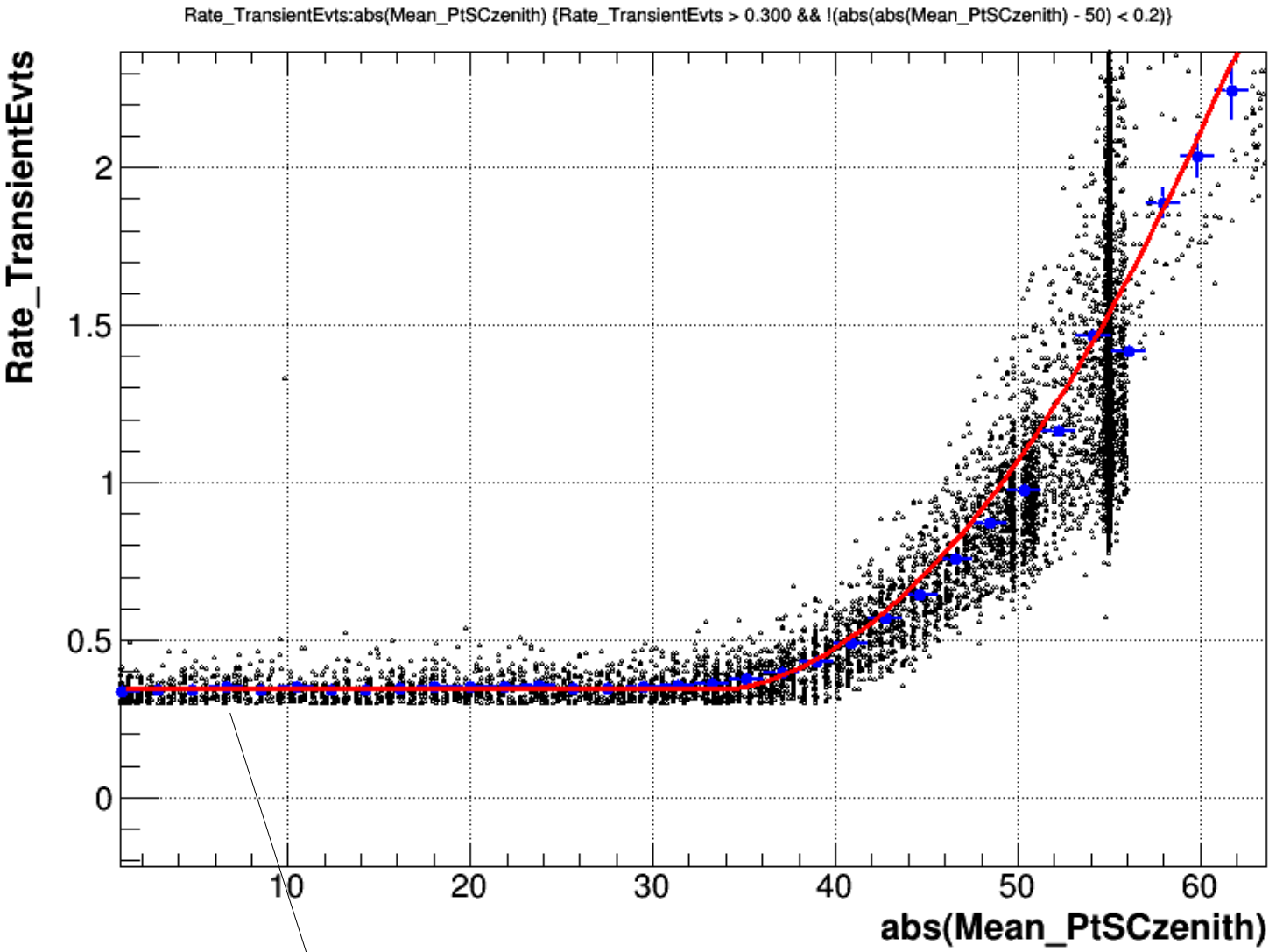


TransientEvents: after Earth Limb correction – new (Pass8)



At low angles the corrected rate is quite far from 1

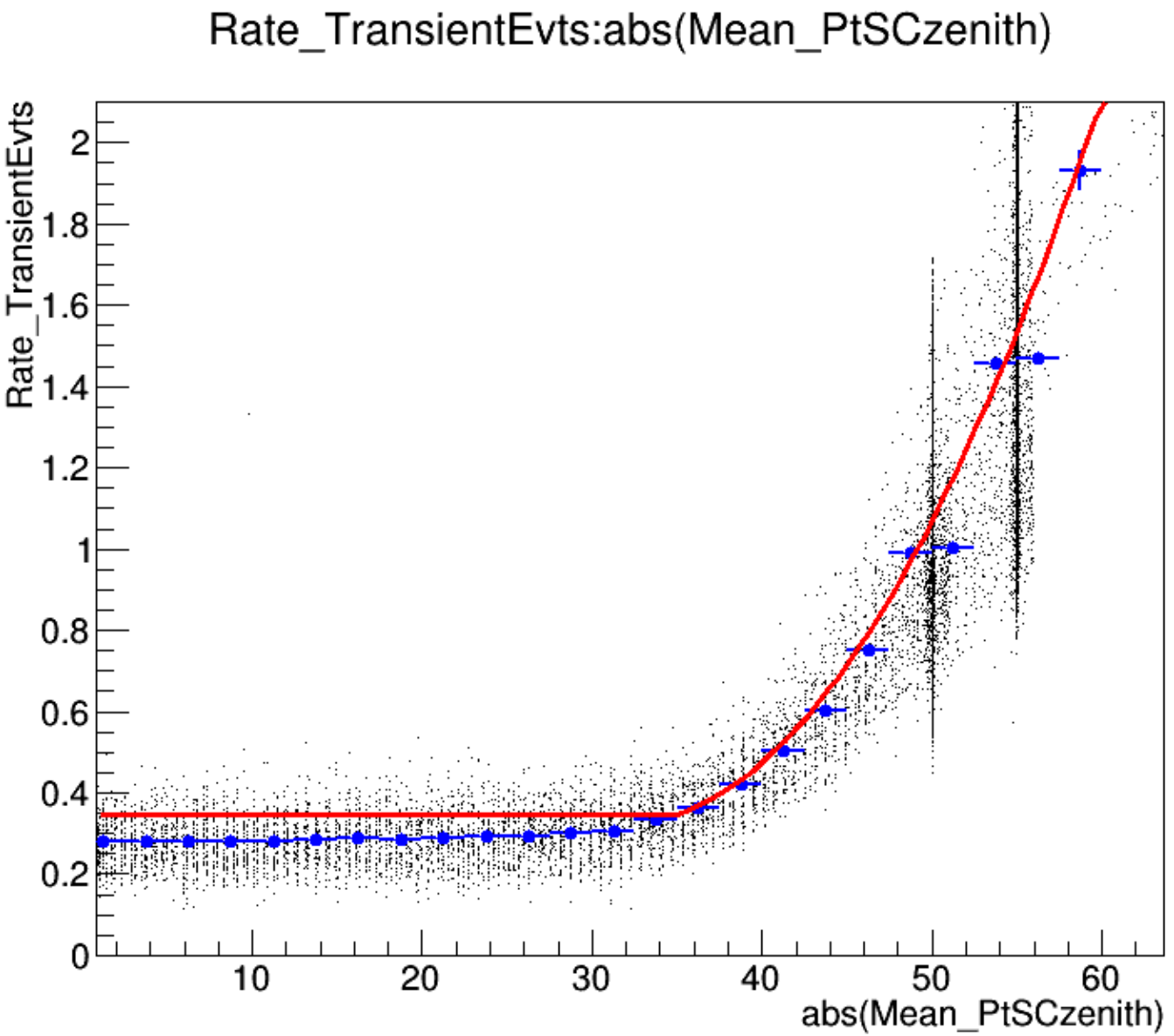
TransientEvents: Earth Limb correction – new (Pass8)



Average biased by a cut on rate>0.3

Cut @ rate>0.3 !!!

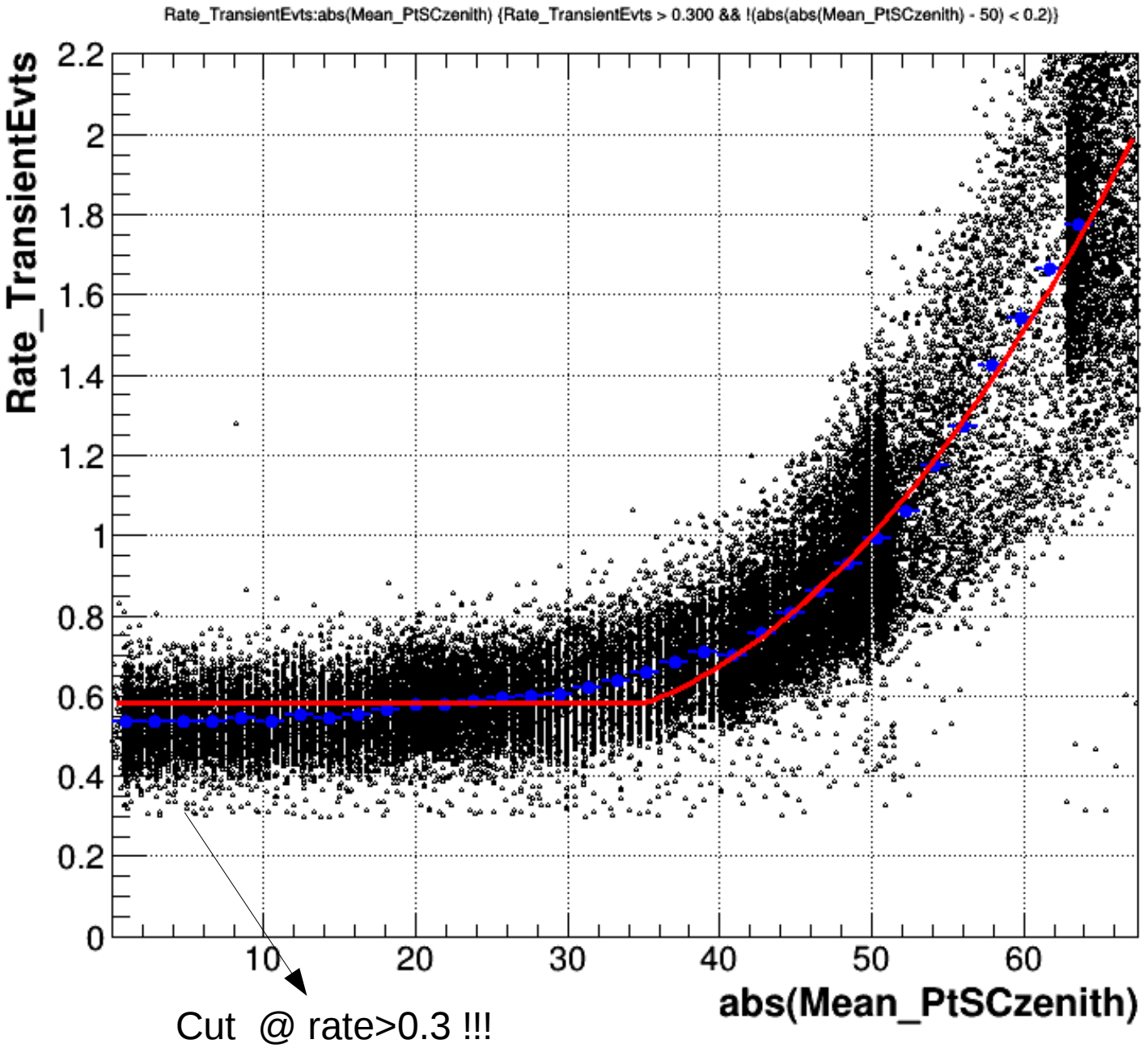
TransientEvents: Earth Limb correction – new (Pass8)



- Red Line:
fitted using the cut at rate>0.3

- Black and blue points:
No cut on rate

TransientEvents: Earth Limb correction – old (Pass7)

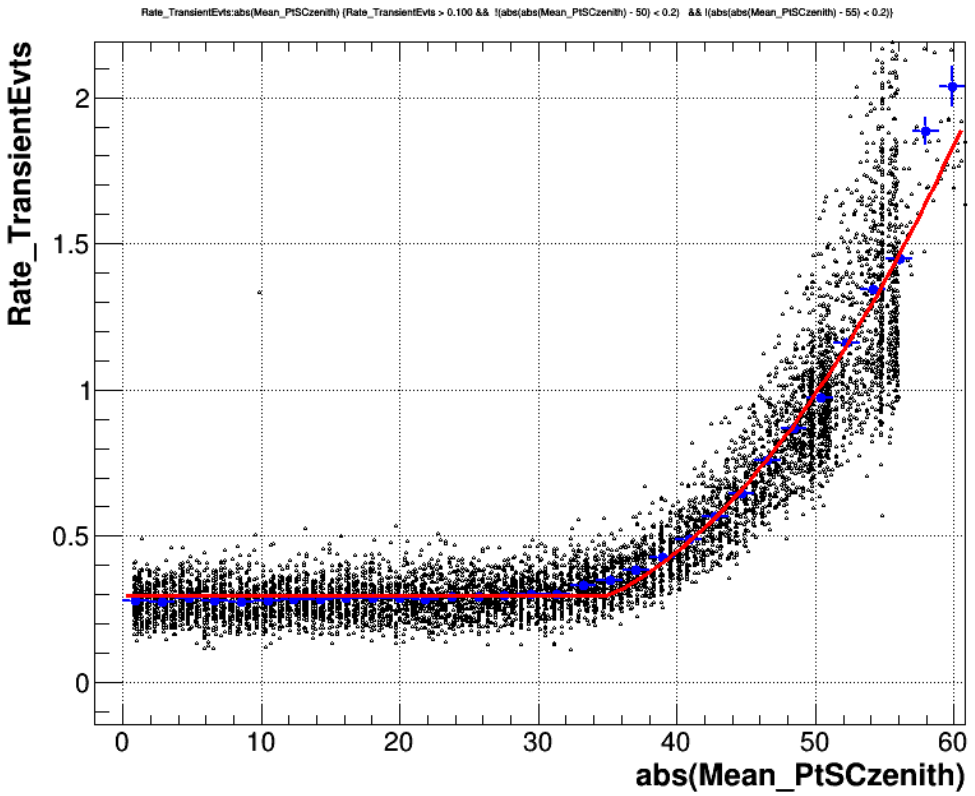


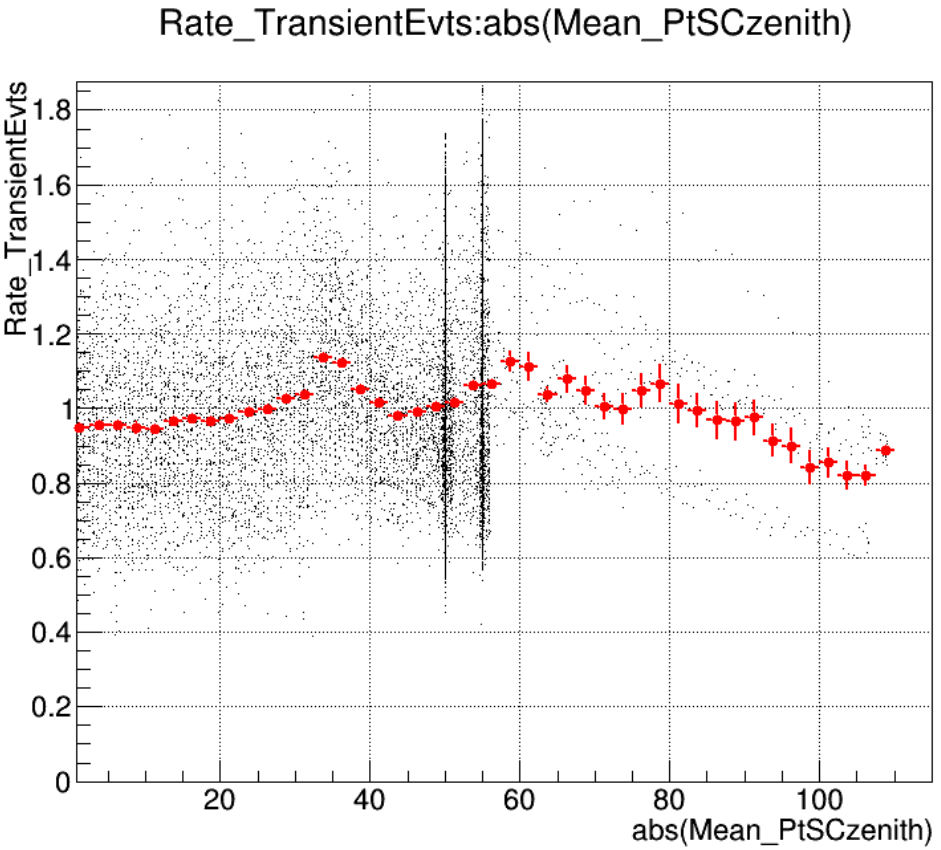
In pass7 transient events this cut was less less important

TransientEvents: Earth Limb correction fit - new cuts (Pass8)

Changing cuts:

MIN_NORM_RATE = 0.1 (was 0.3)
NOT_ROCK_ANGLE_CUT ==> exclude also 55 deg

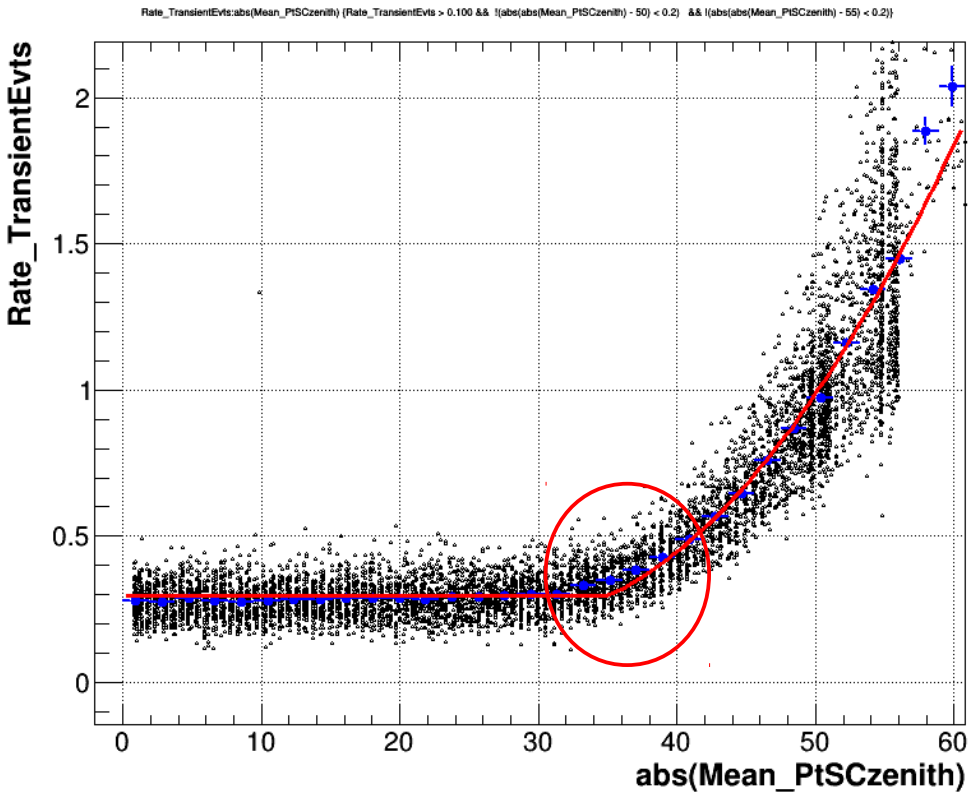


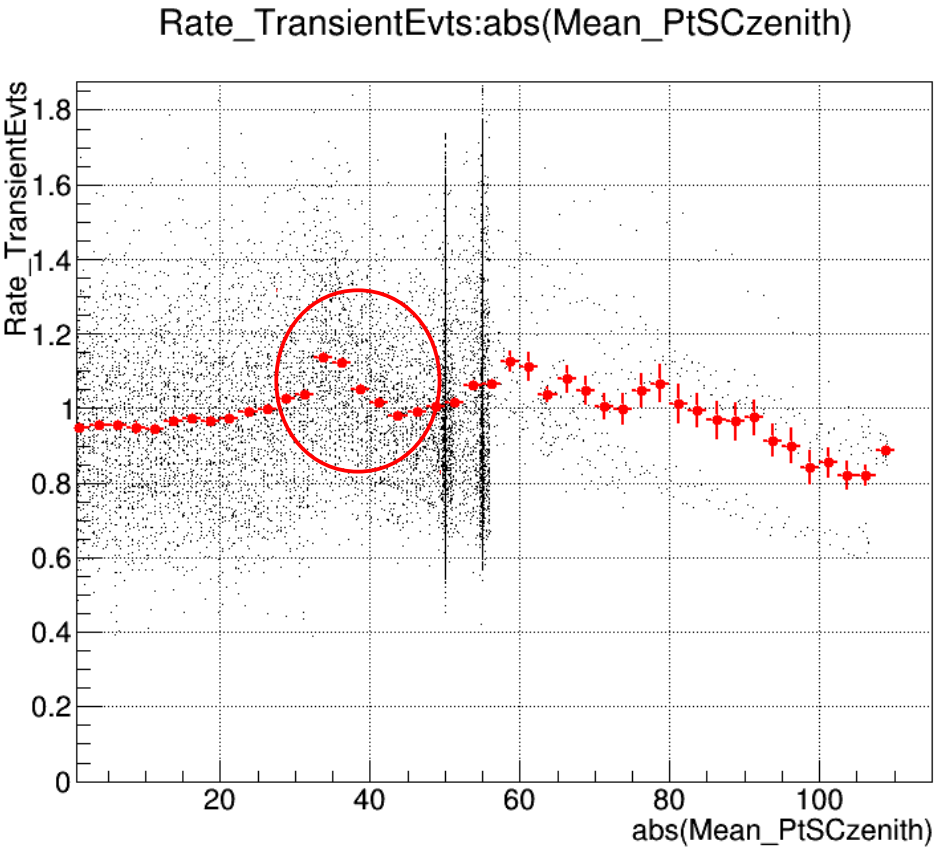


TransientEvents: Earth Limb correction fit - new cuts (Pass8)

Changing cuts:

MIN_NORM_RATE = 0.1 (was 0.3)
NOT_ROCK_ANGLE_CUT ==> exclude also 55 deg





TransientEvents: Earth Limb correction fit - new cuts (Pass8)

Changing cuts:

MIN_NORM_RATE = 0.1 (was 0.3)
NOT_ROCK_ANGLE_CUT ==> exclude also 55 deg
LIMB_ROCK_ANGLE = 30 (was 35) parameter [3] (fixed) of limb_fit_formula:
LIMB_FIT_FORMULA = '[0] + [1]*(x>[3])*(x-[3]) + [2]*(x>[3])*(x-[3])**2'