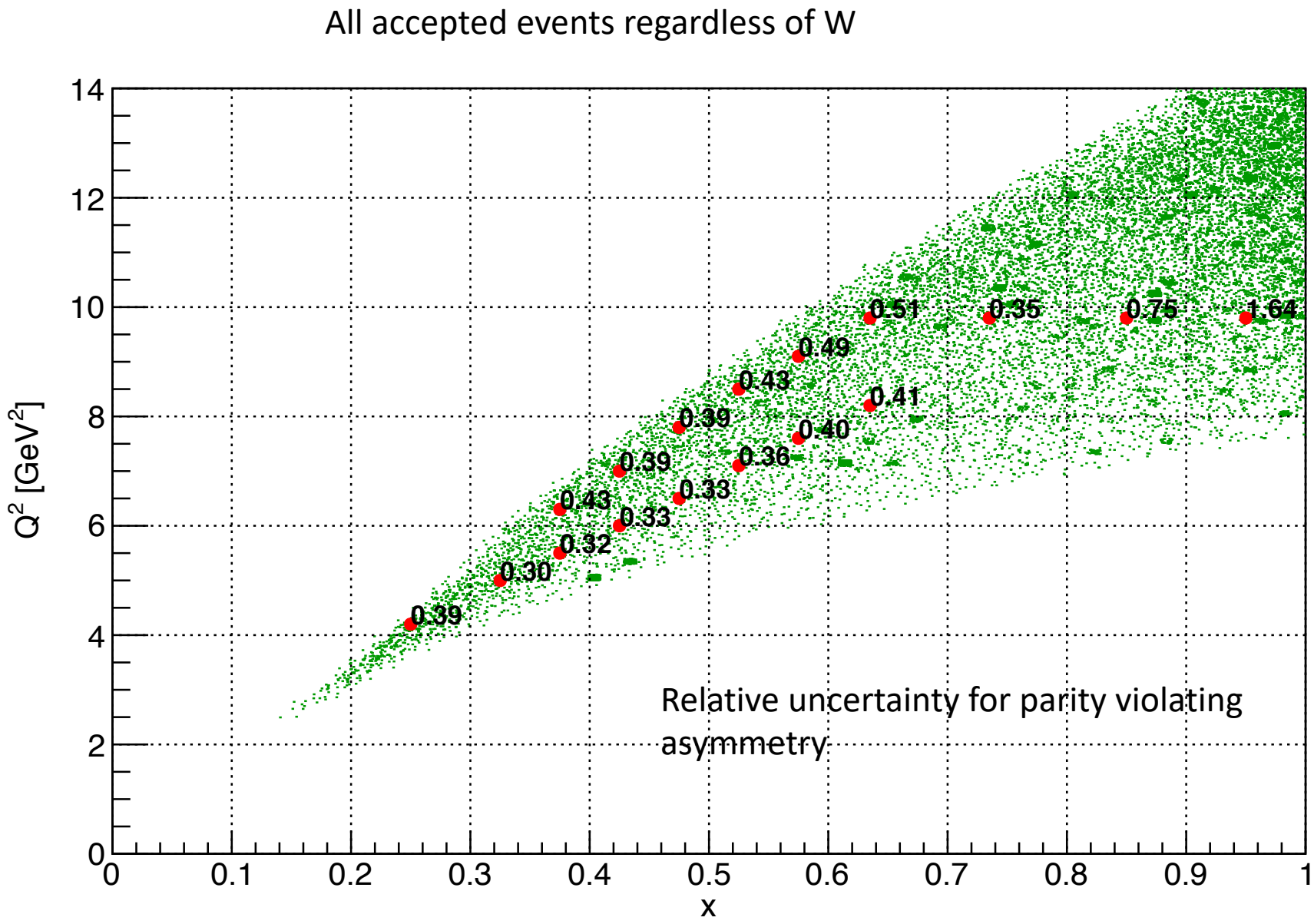
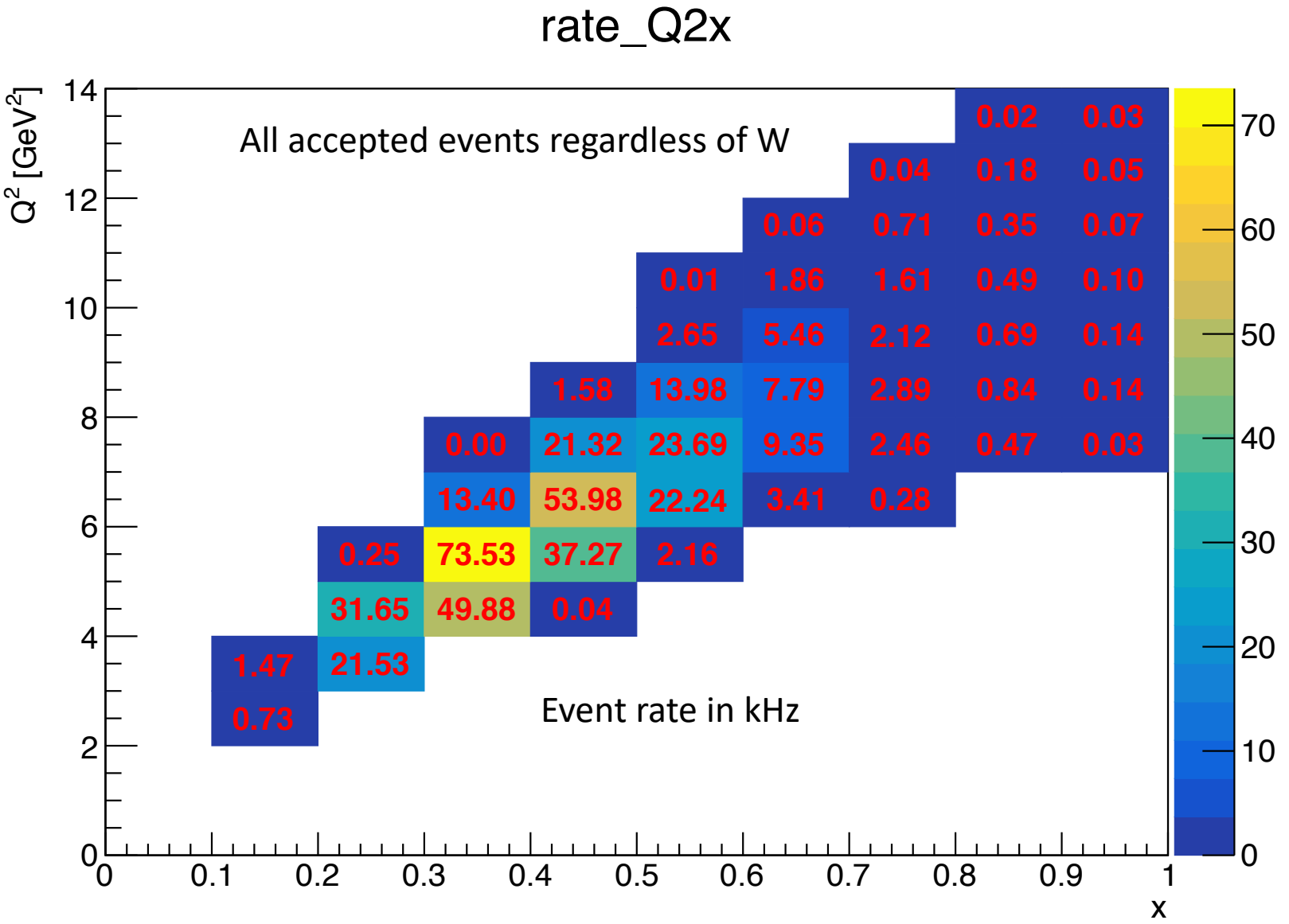
Expected rate and statistical uncertainty

- Assuming 120 days on deuterium target with 11 GeV beam
- Using F1F2_21 fit for the eAll generator
- Include acceptance and trigger efficiency effects
- All numbers in percentage

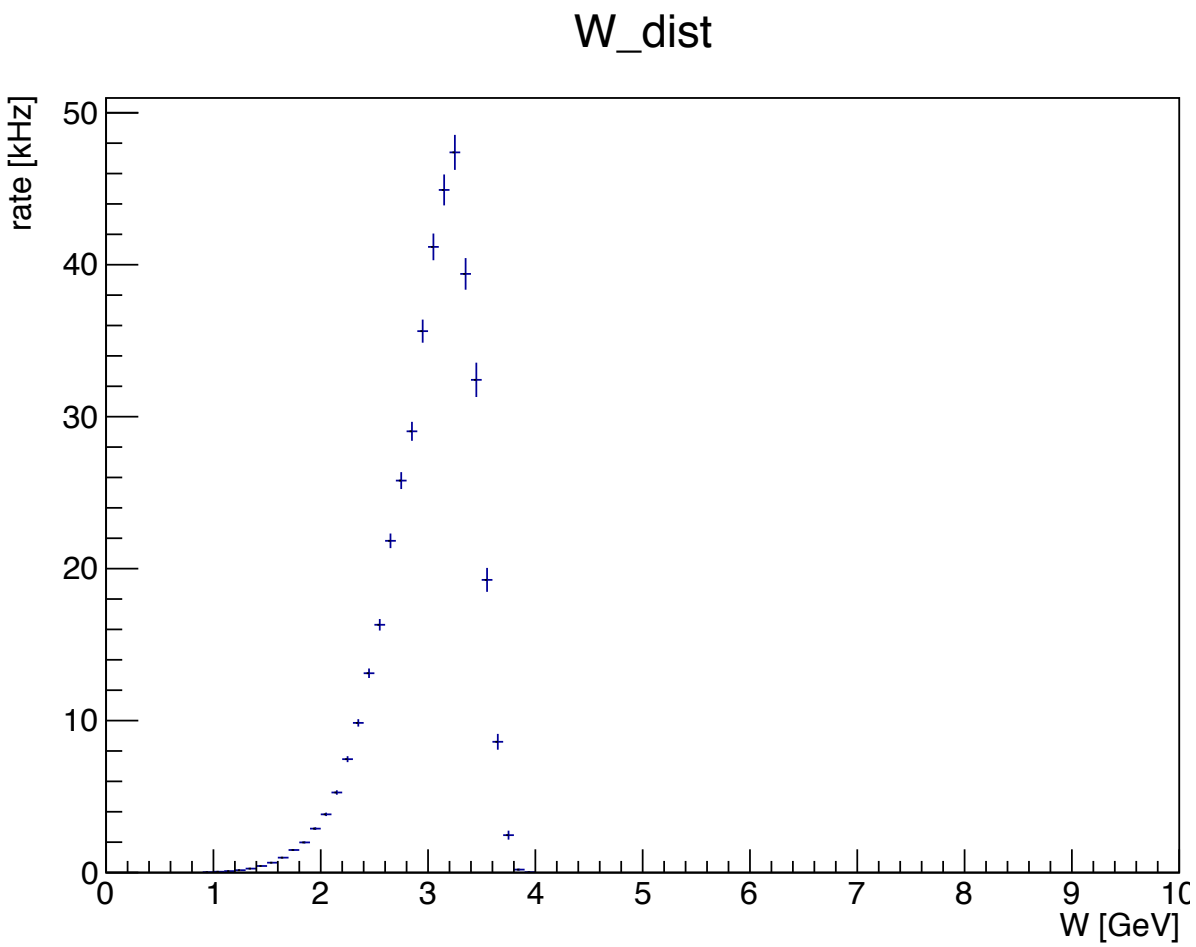


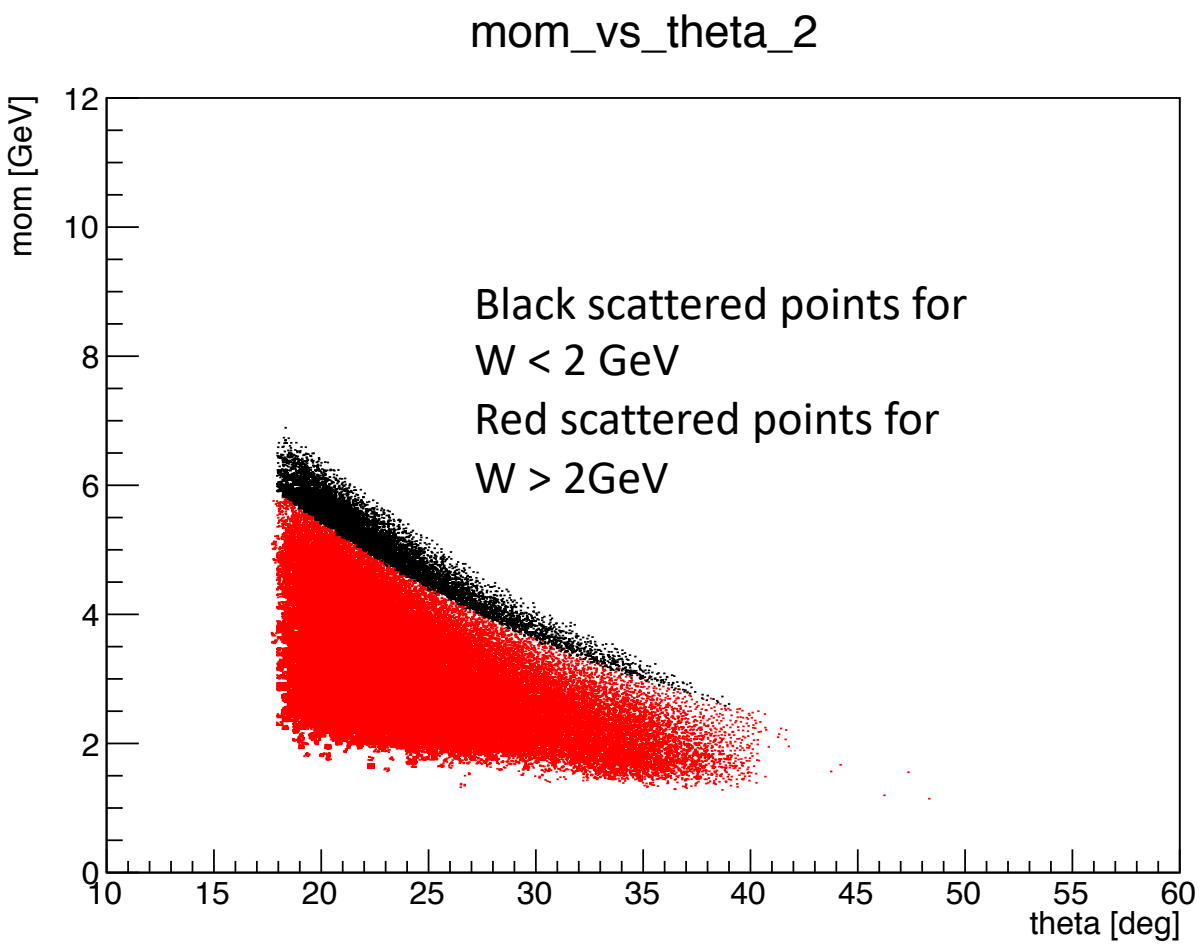
Expected rate and statistical uncertainty

- Assuming 120 days on deuterium target with 11 GeV
- Using F1F2_21 fit for the eAll generator
- Include acceptance and trigger efficiency effects
- Binning: 0.1 for x and 1 GeV^2 for Q^2
- All numbers in kHz



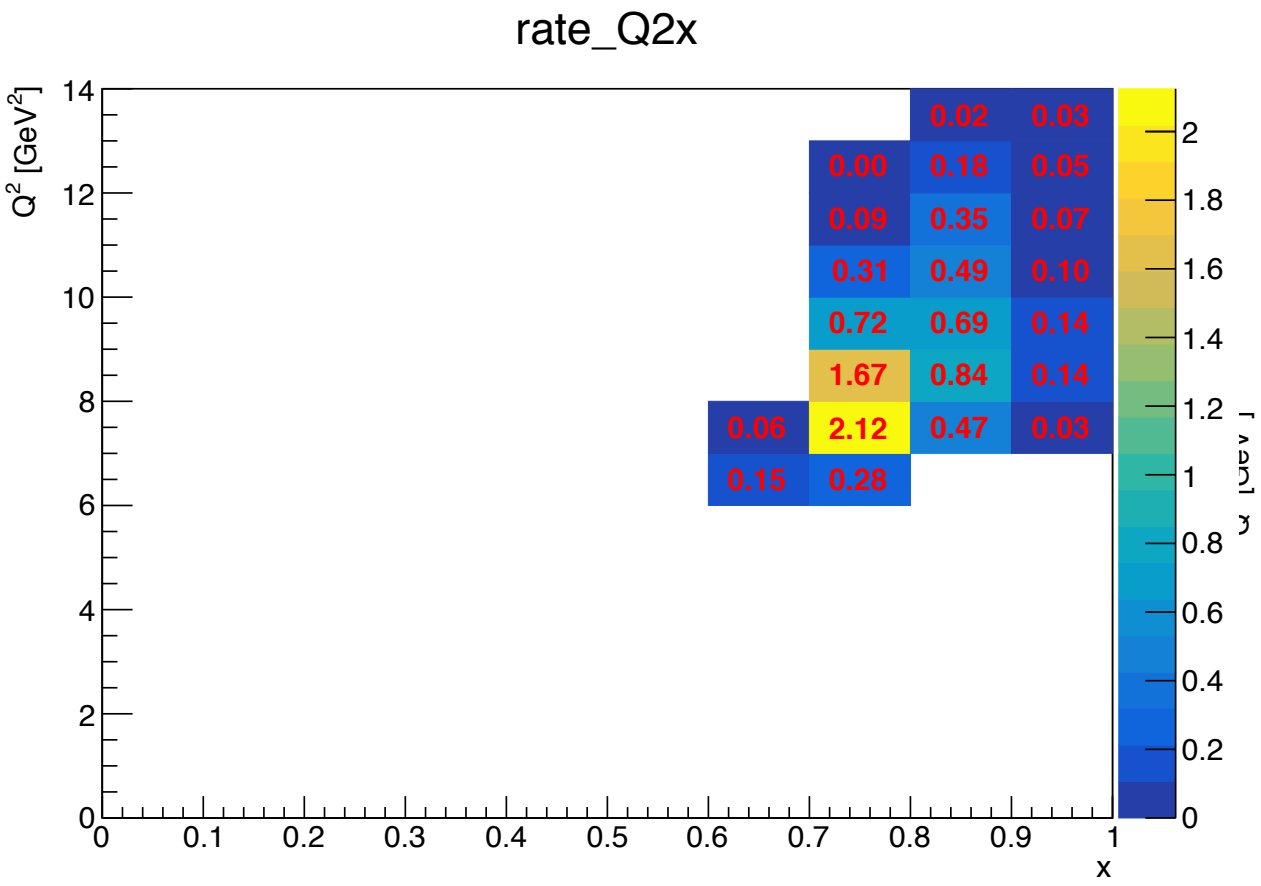
Expected rate and statistical uncertainty

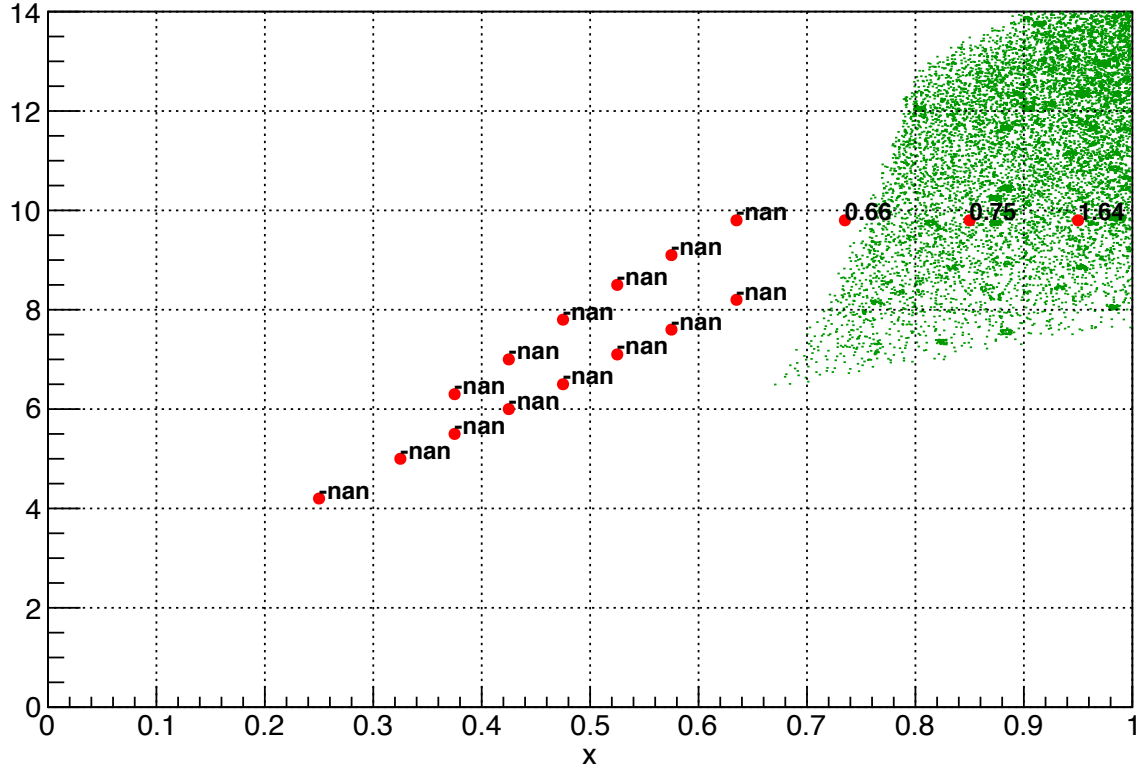




Expected rate and statistical uncertainty

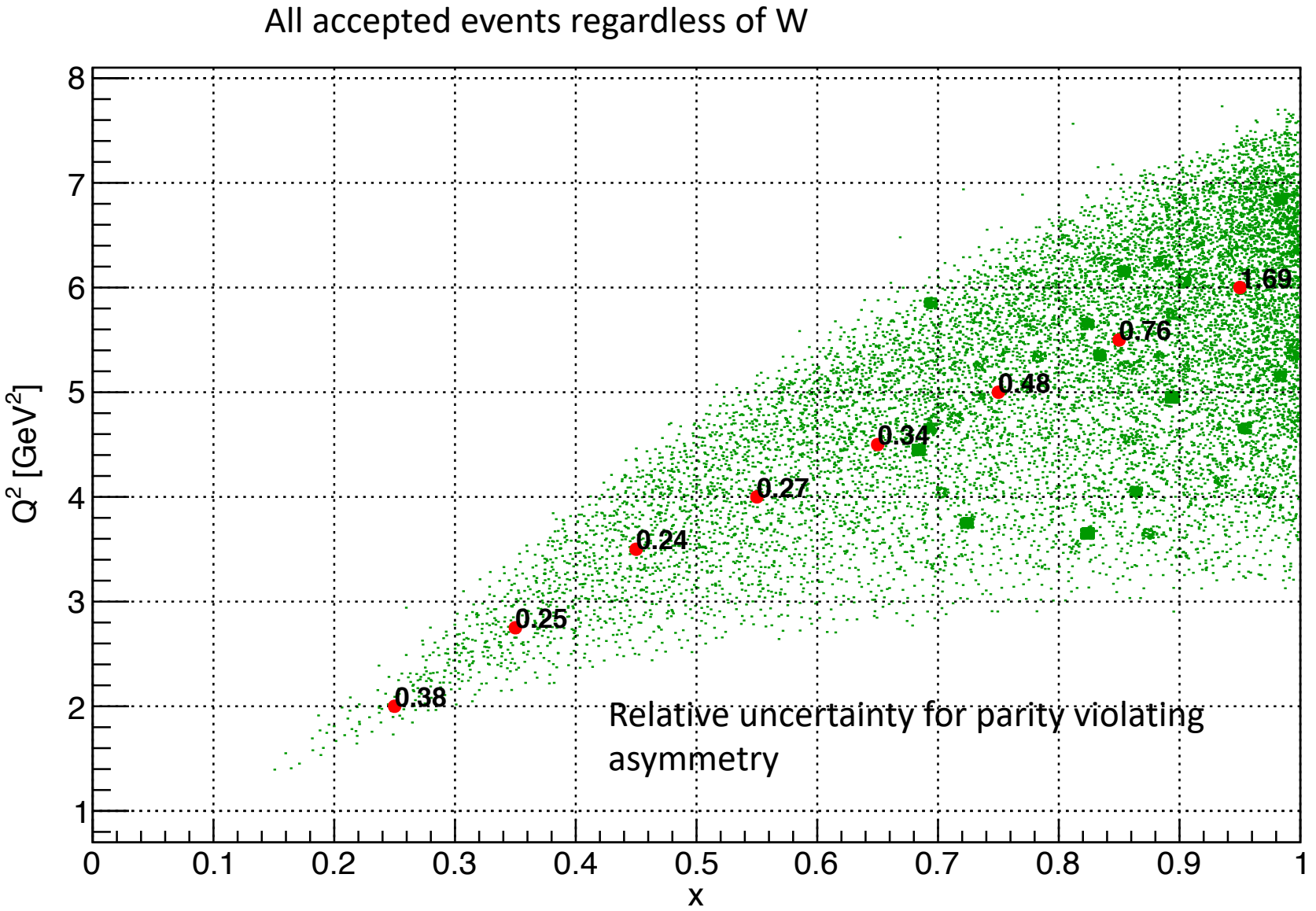
Only for events with W < 2GeV





Expected rate and statistical uncertainty

- Assuming 120 days on deuterium target with 6.6 GeV beam
- Using F1F2_21 fit for the eAll generator
- Include acceptance but NO trigger efficiency effect
  - Typically the trigger efficiency has larger effect on low x, so high x or low W region should be ok
- All numbers in percentage



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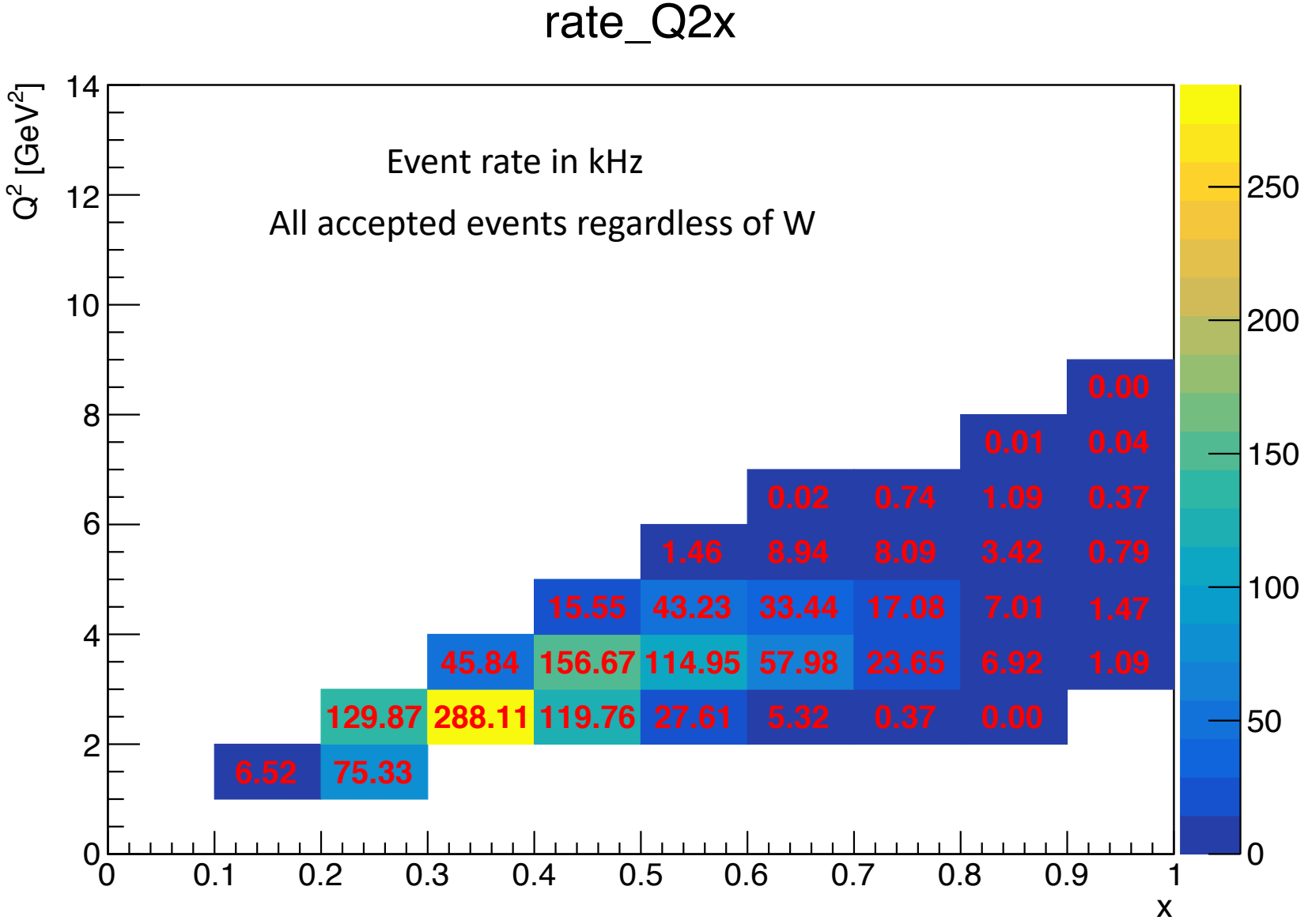
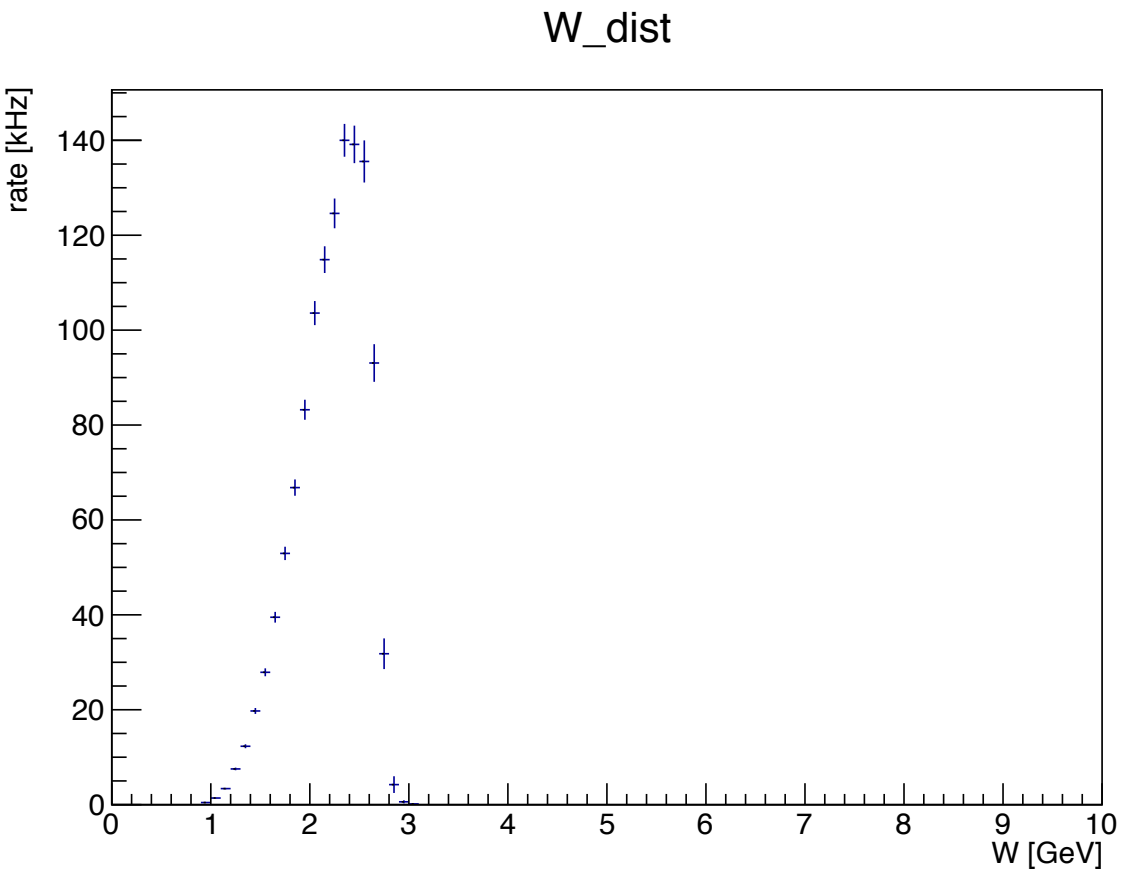
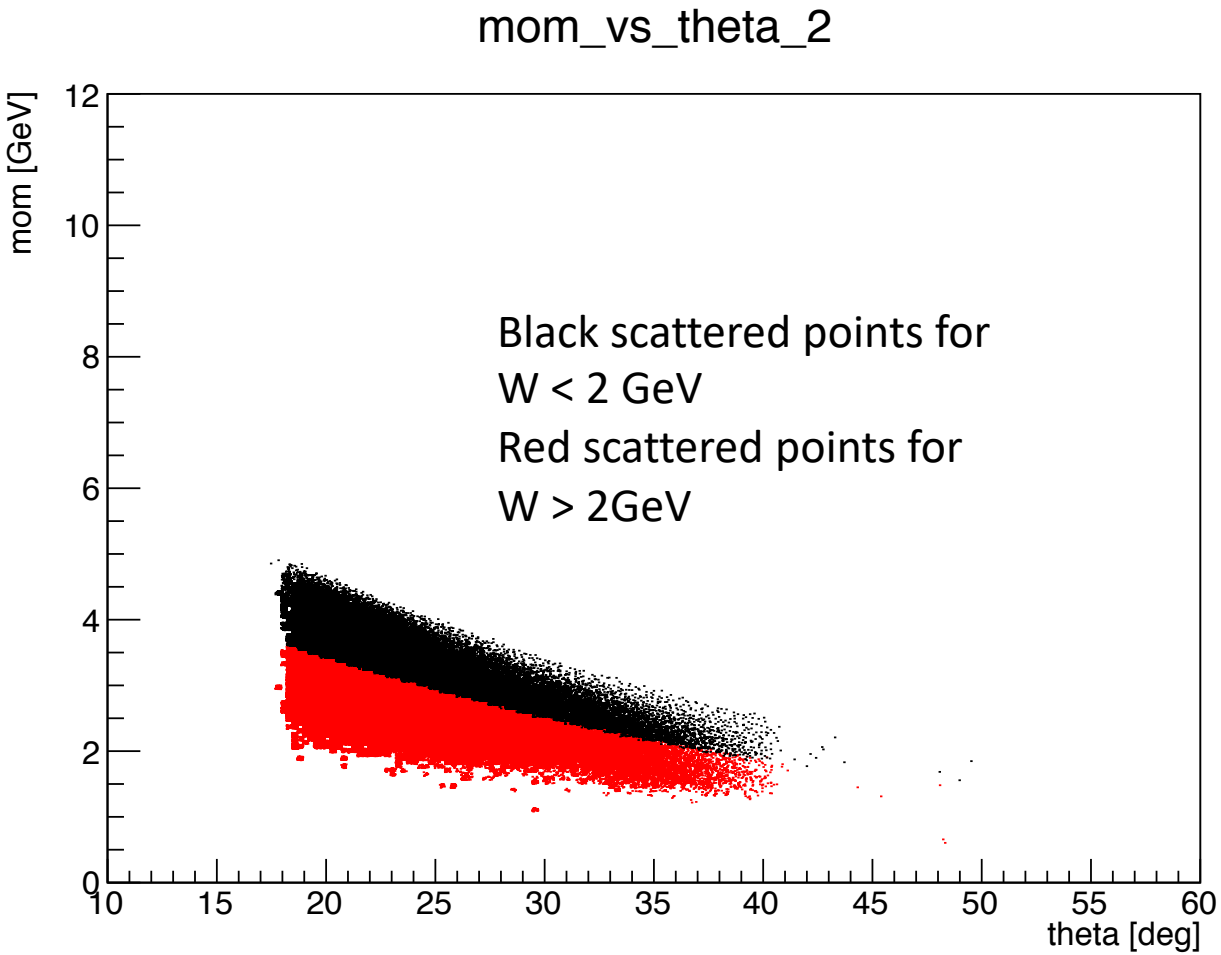


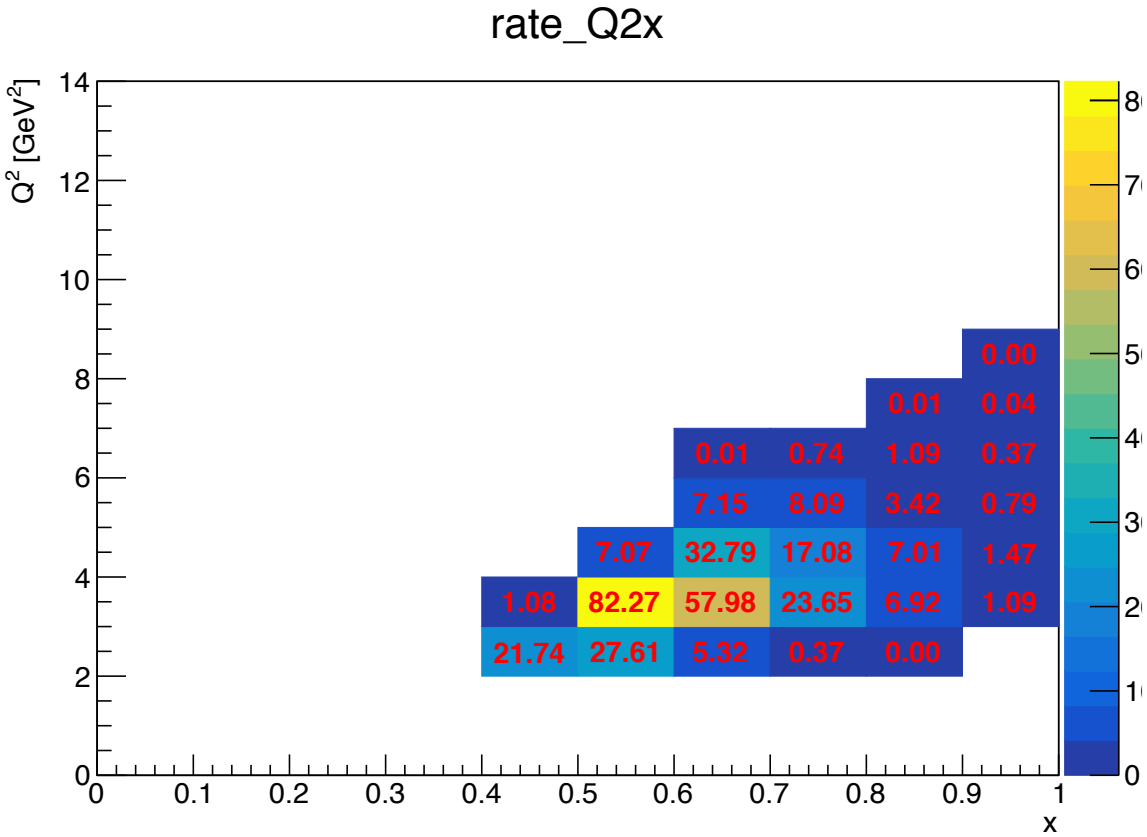
Expected rate and statistical uncertainty

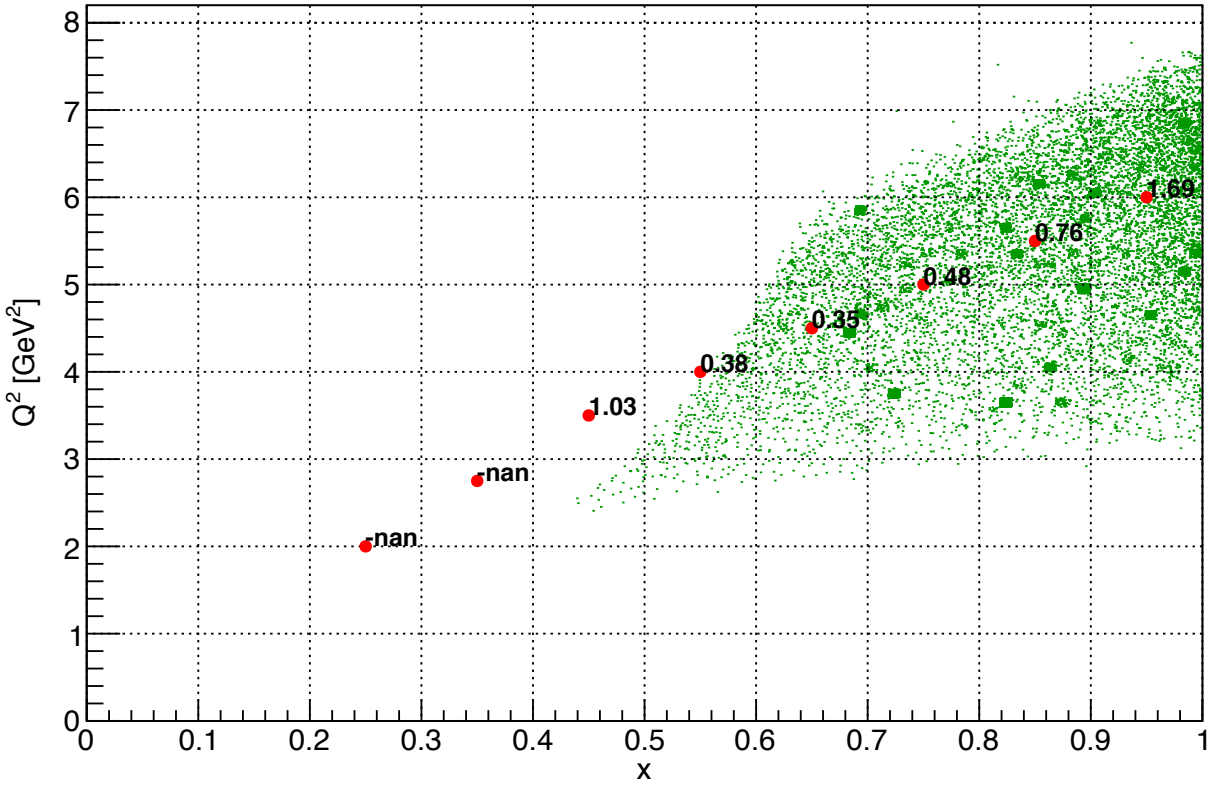




Expected rate and statistical uncertainty

Only for events with W < 2GeV





Difference between F1F2_09 and F1F2_21 fit

- There are indeed some significant difference between the 09 and 21 fits
- In particular in the low x region, the difference can be larger than 1.5
- However, in high x or low W region, the results are very close