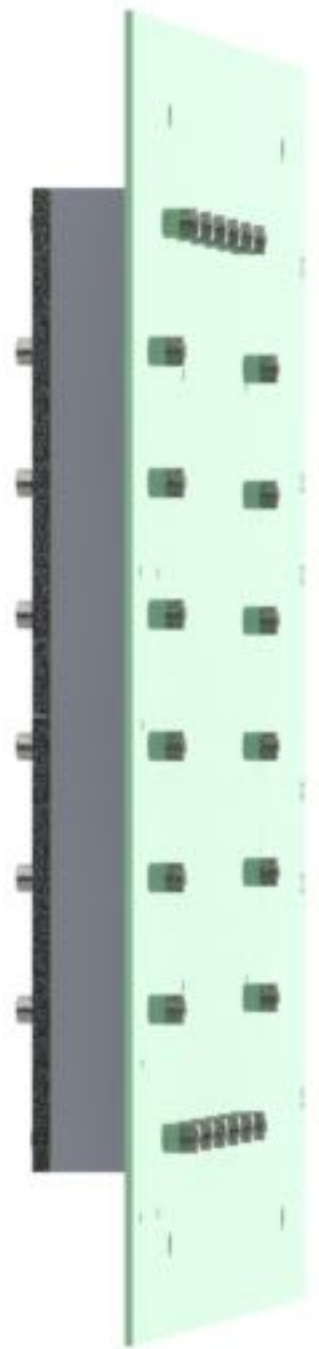


status of TB analysis

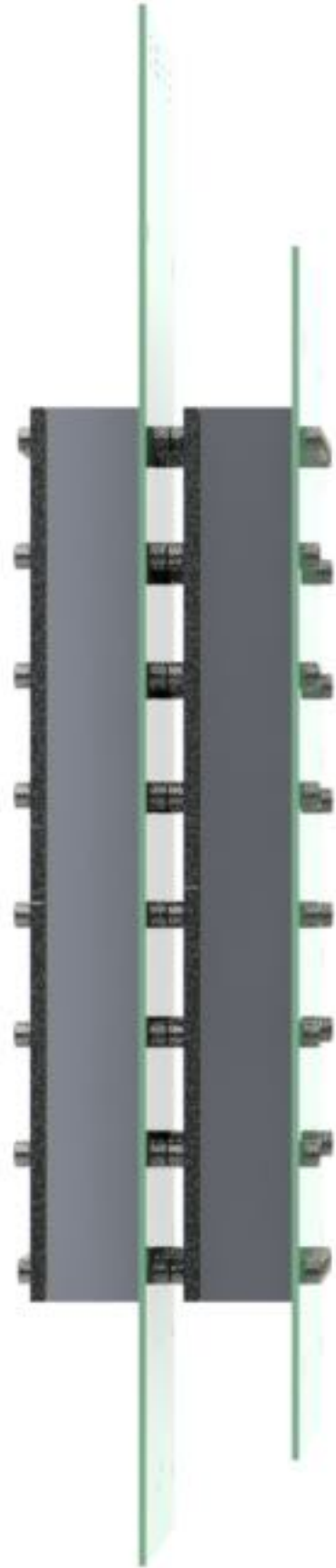
April-May 2023 (TIGER)

19/05/2023

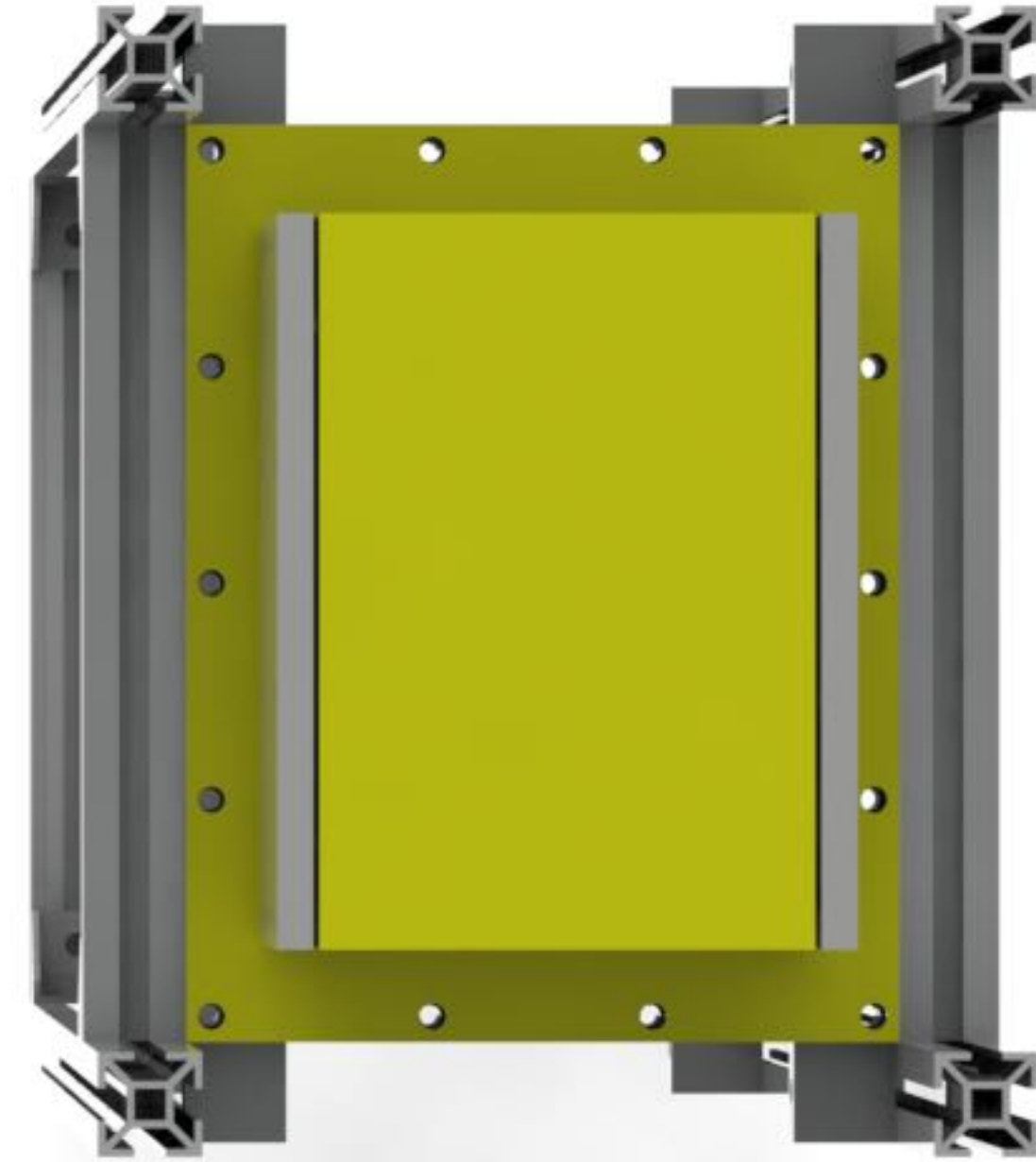
A.Zelenov



MM1



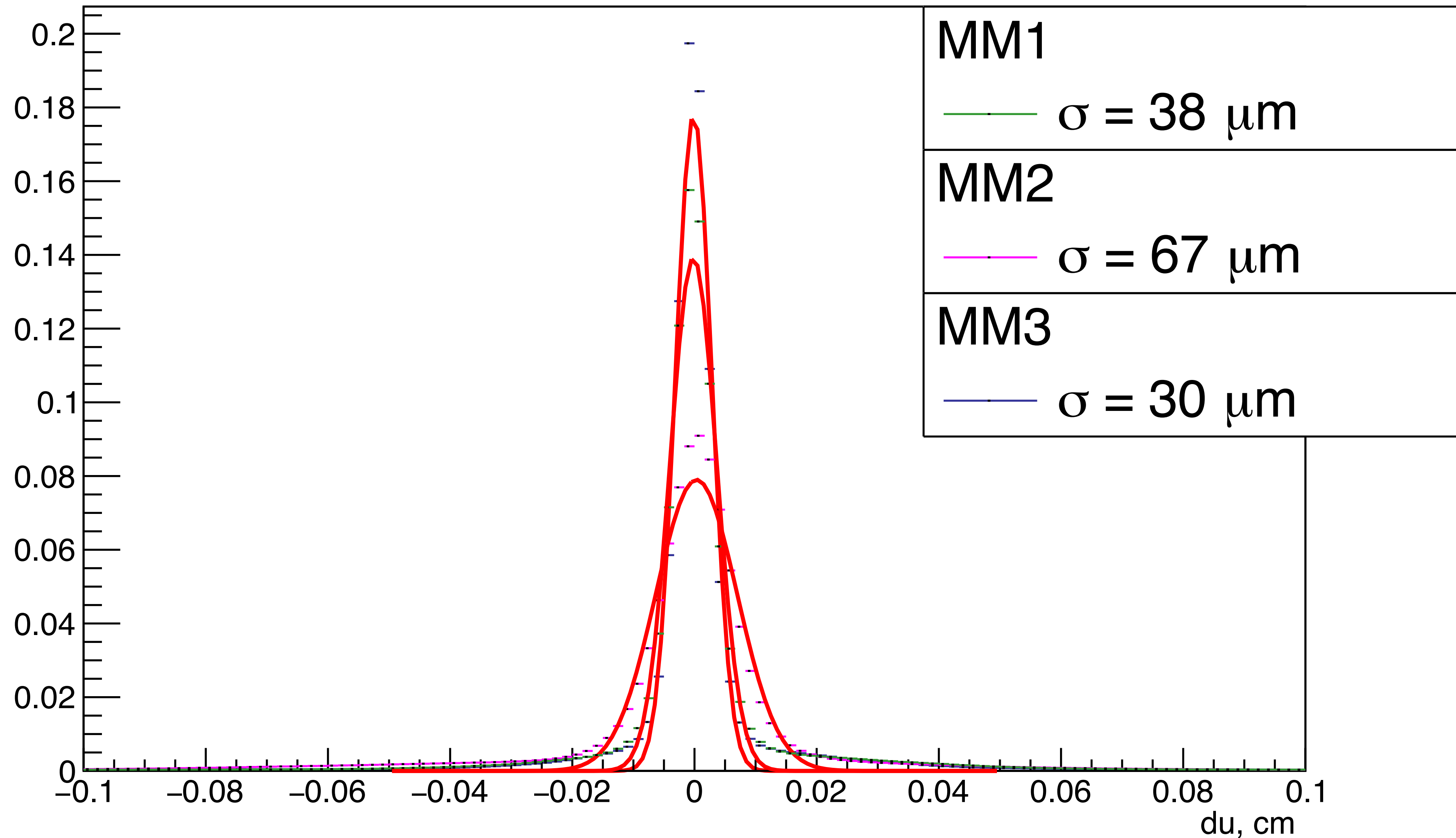
MM2



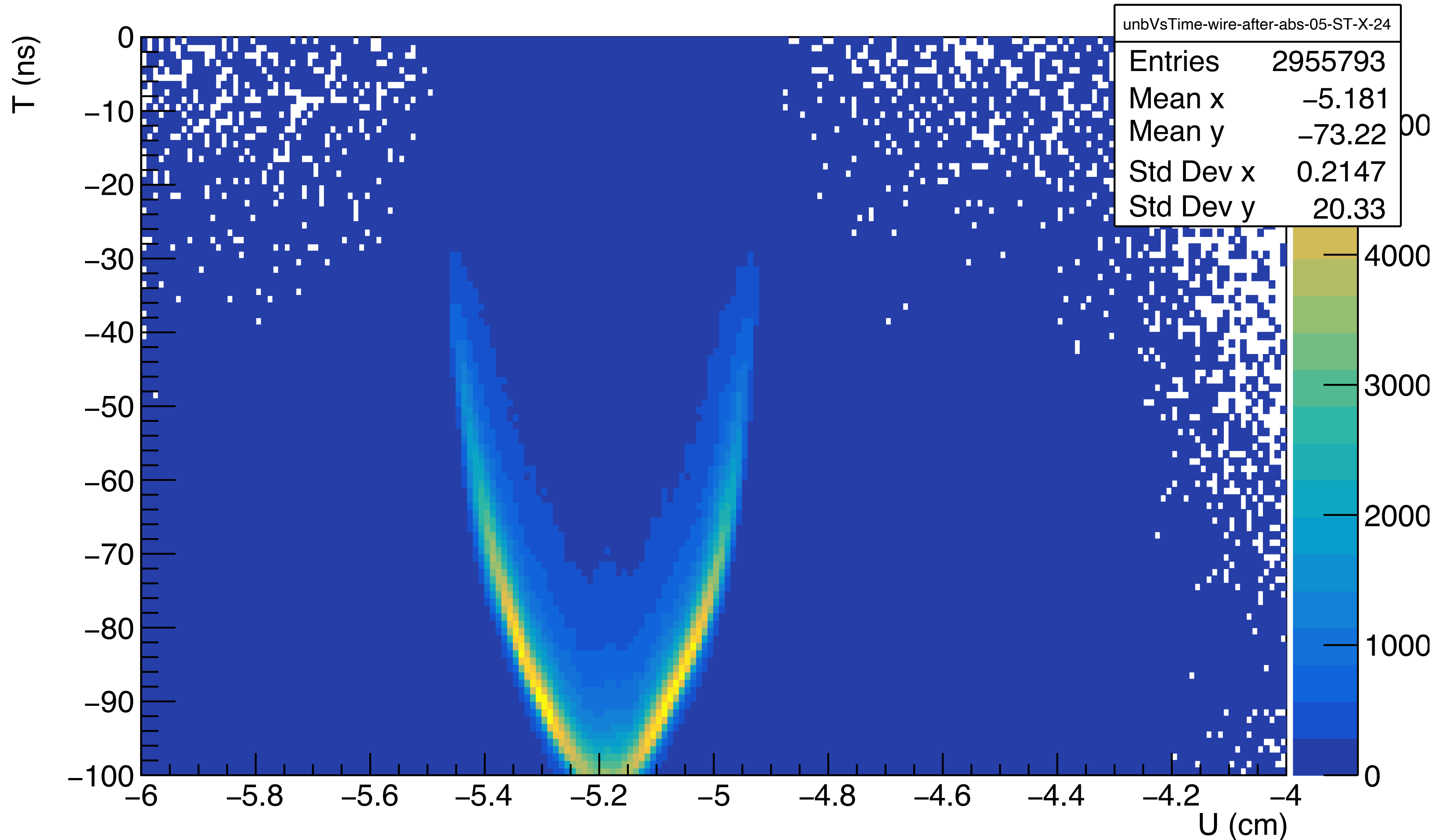
MM3

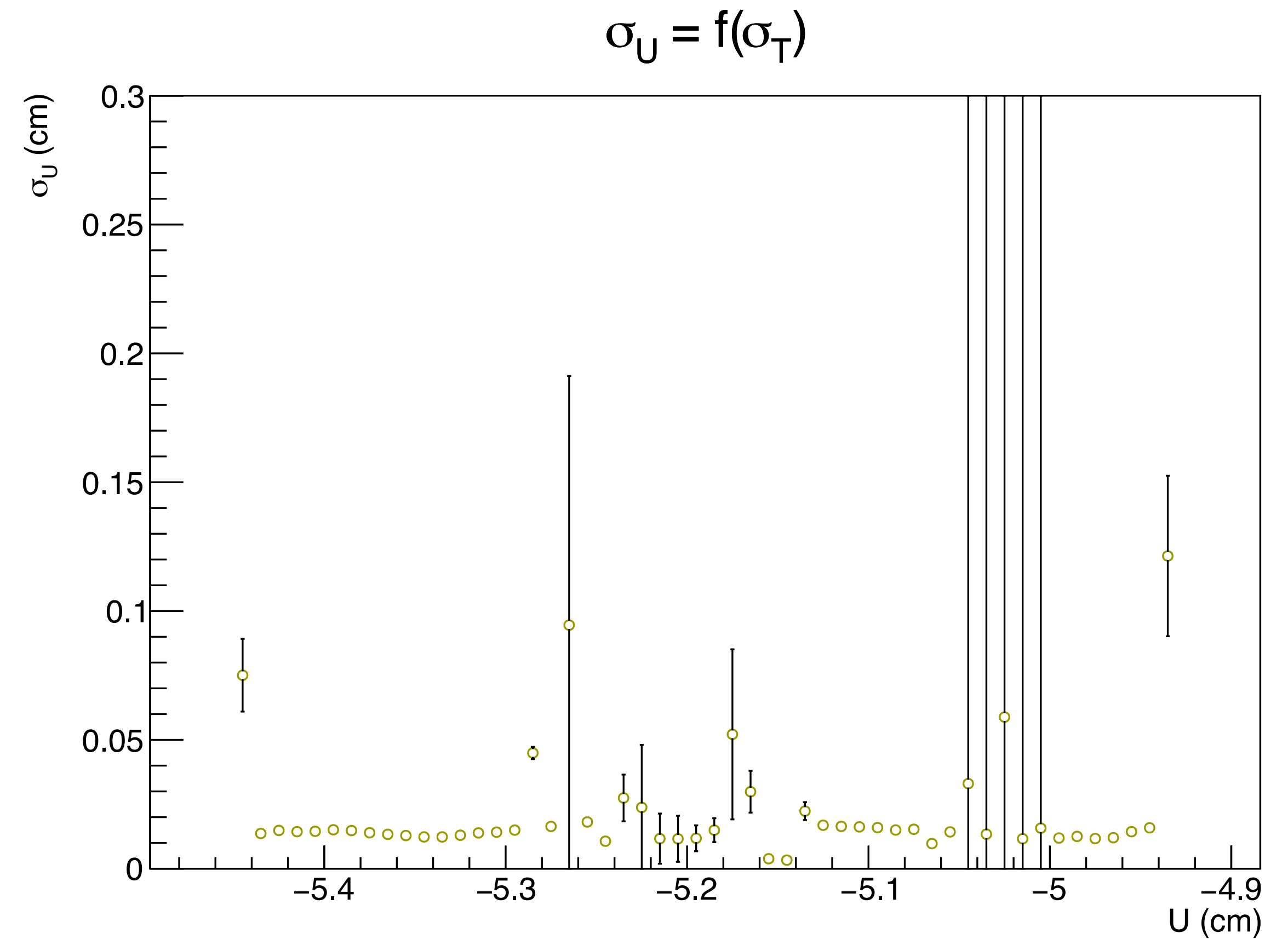
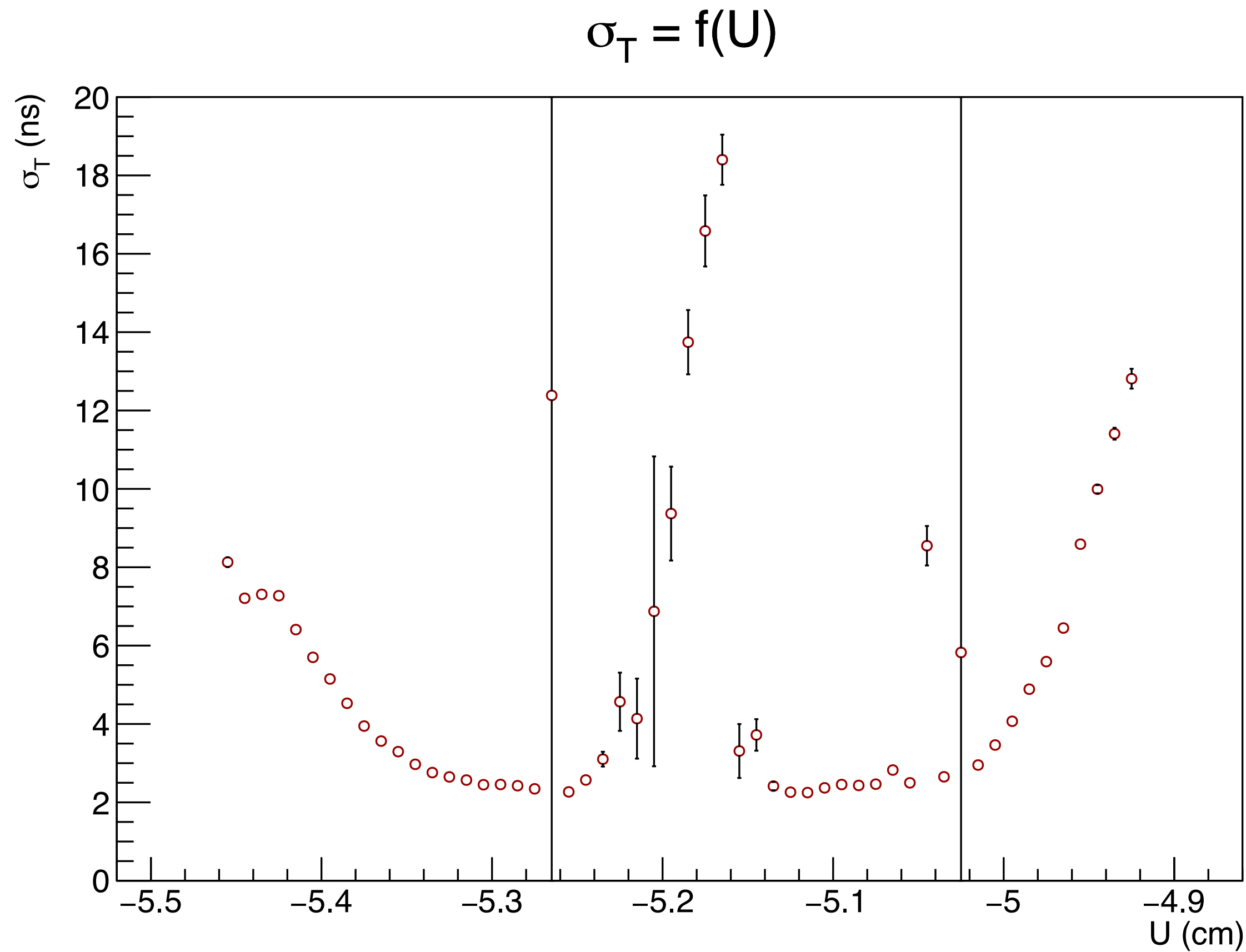


Track residuals



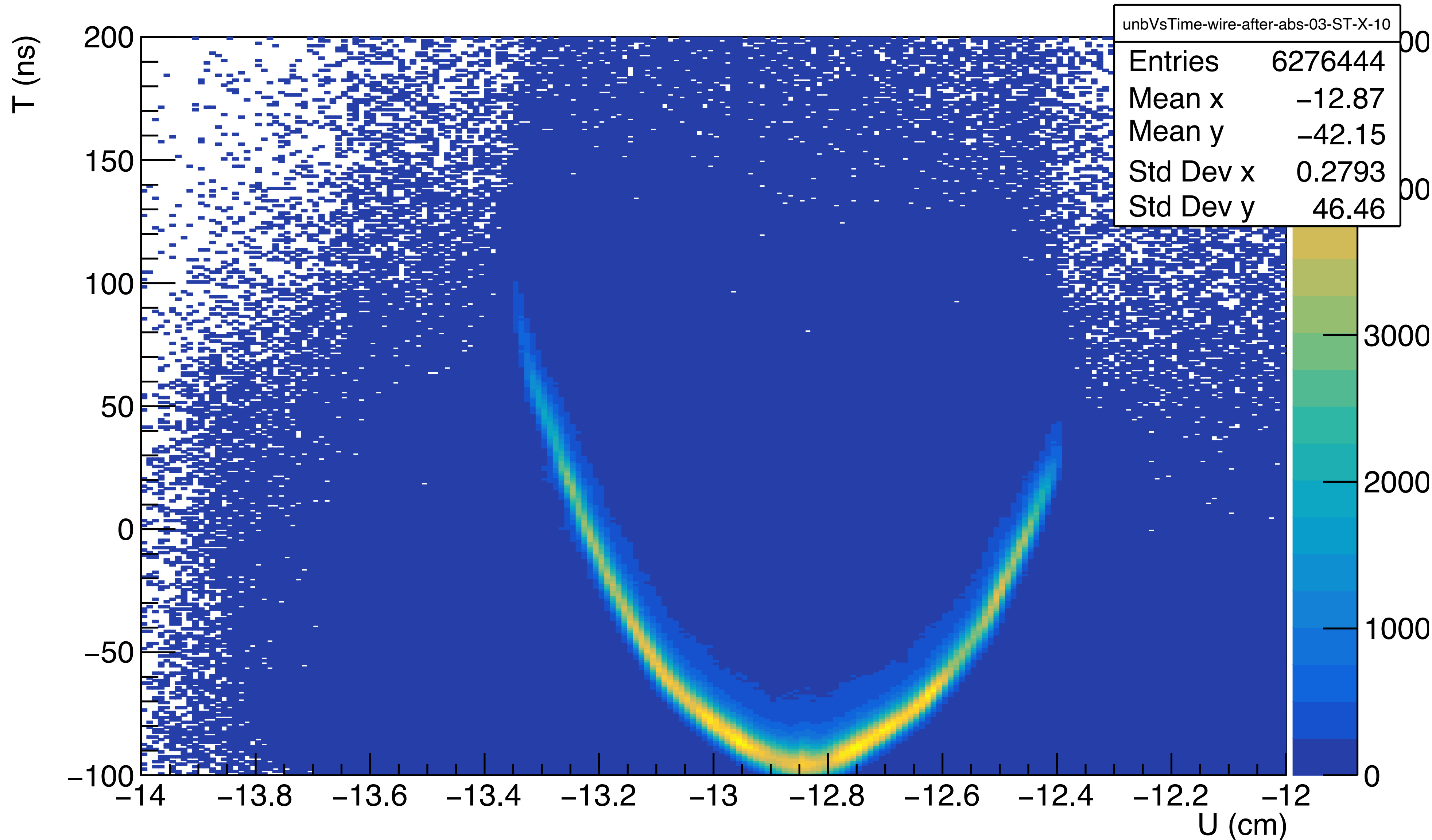
Initial vShape

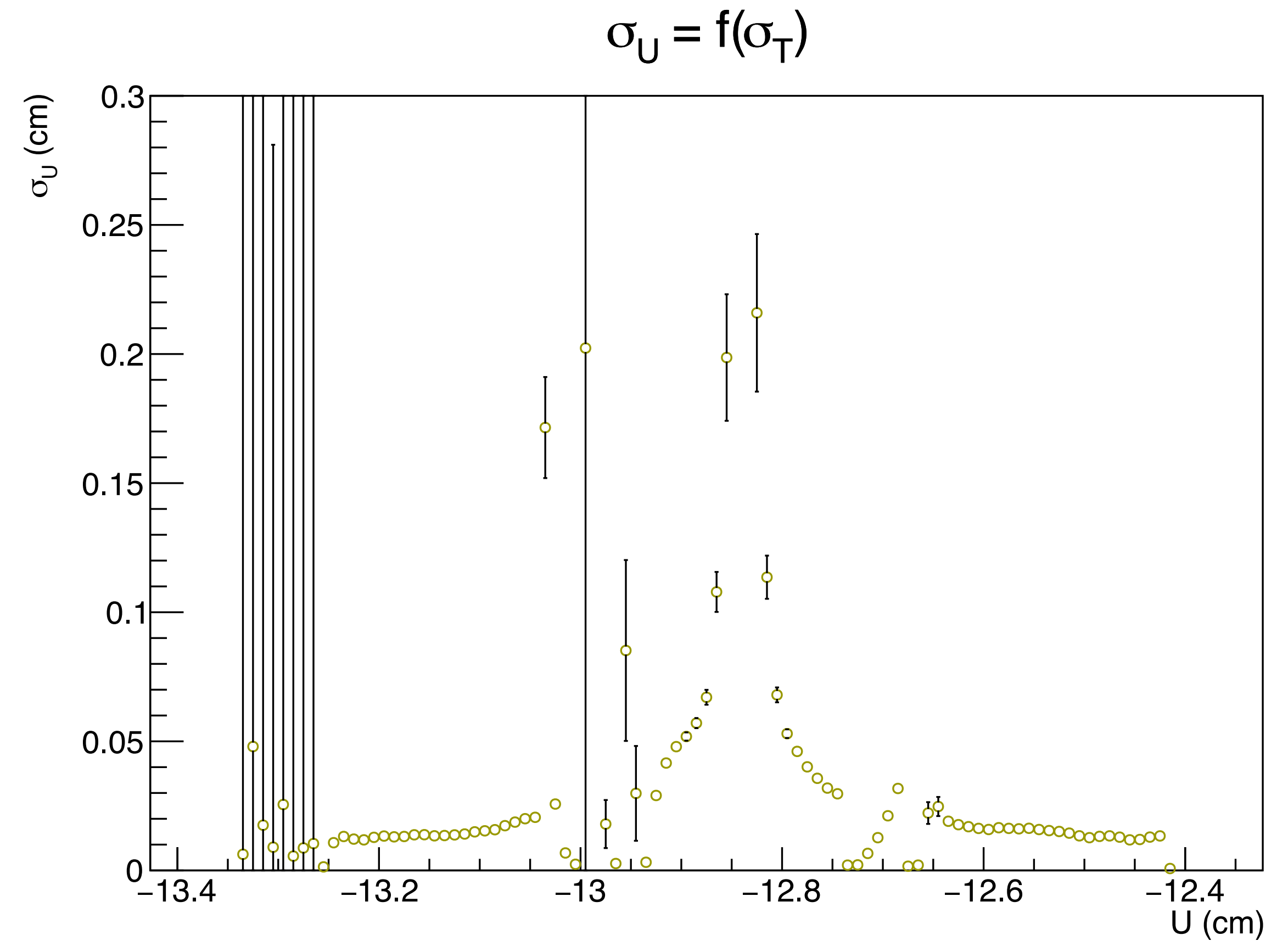
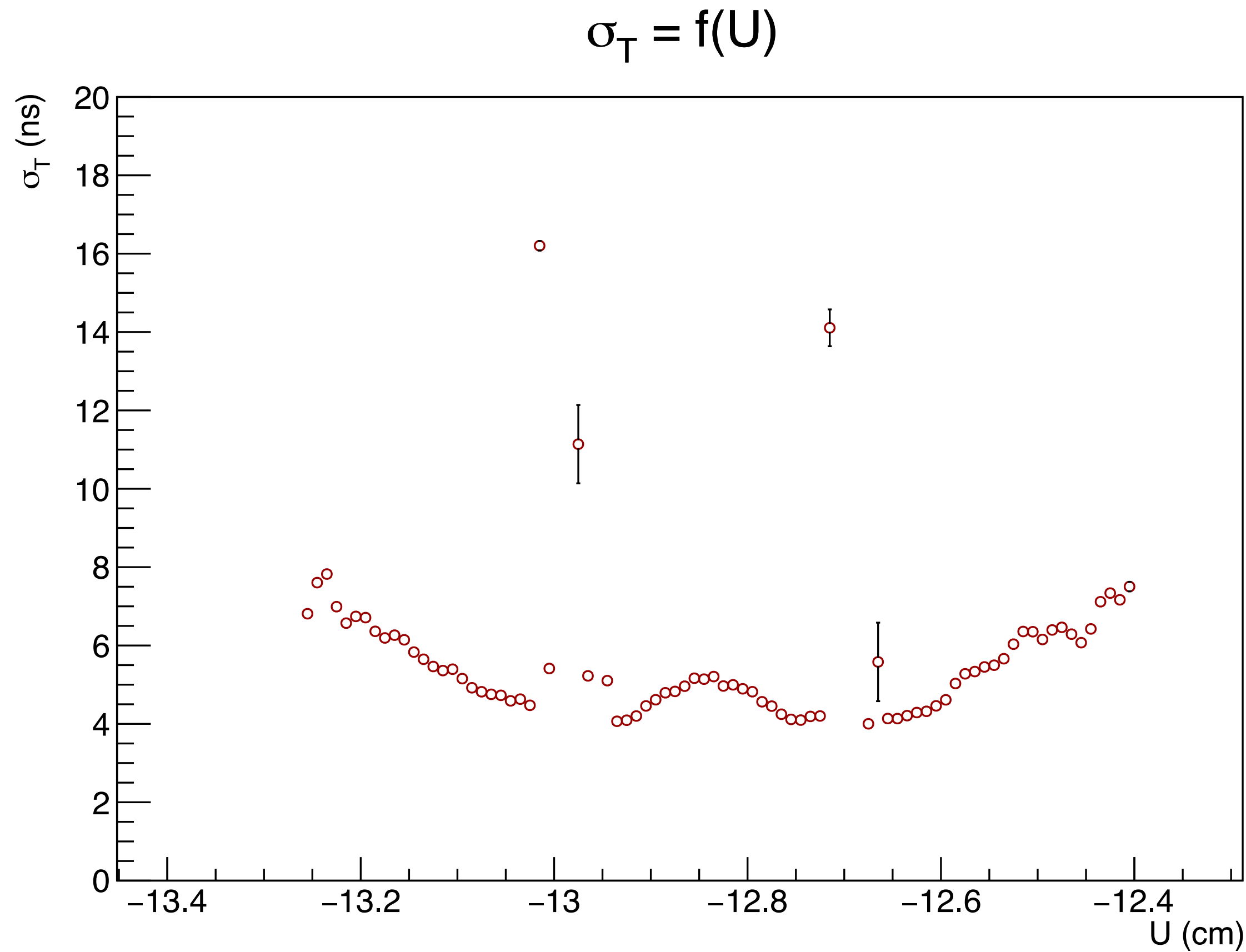




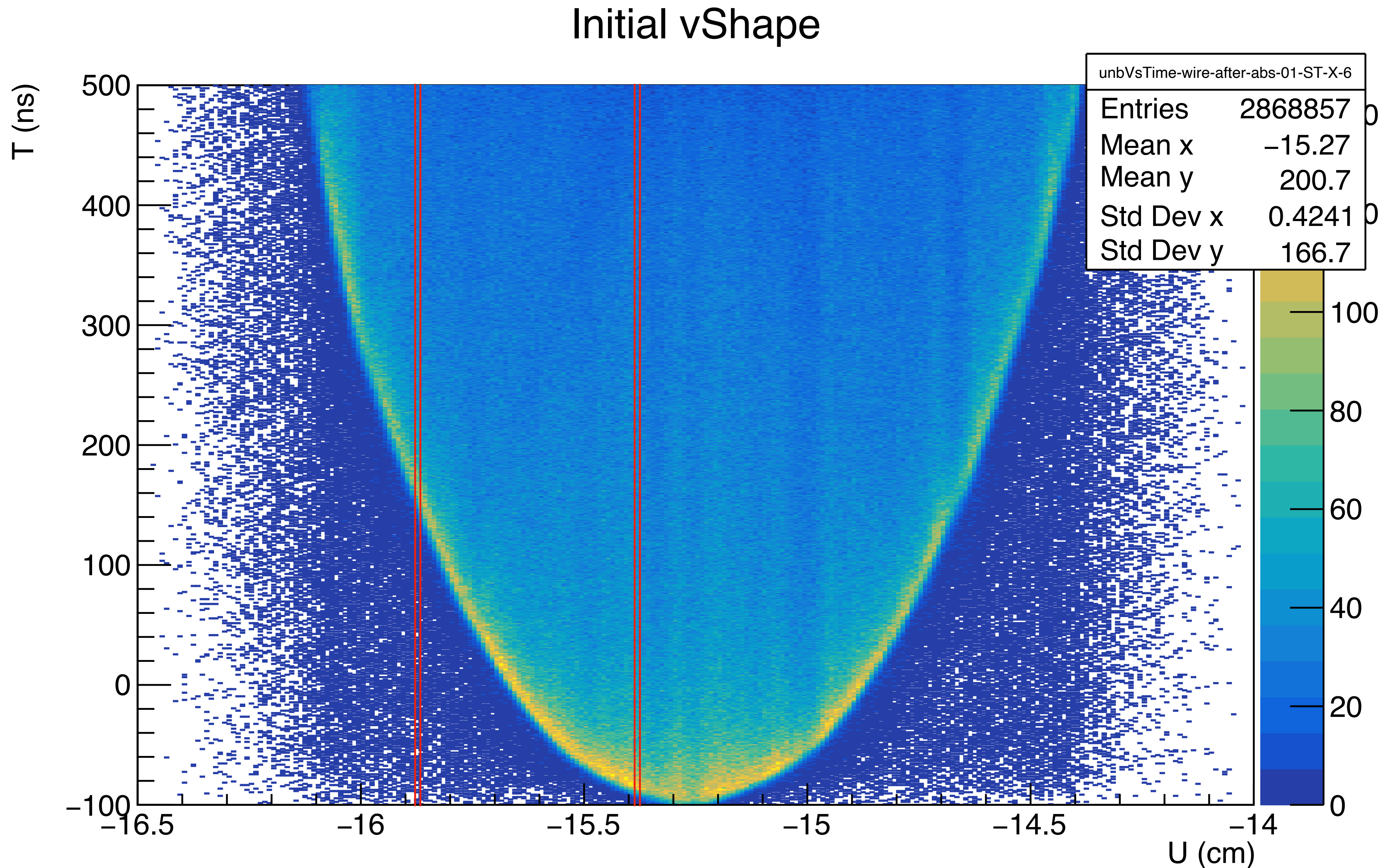
1. The weighted mean of *Coordinate resolution* distribution is **136 μm !**
2. The best time '*resolution*' is about **2 ns!**
3. **-100 ns** cut is too rough for the 6mm straws 😞

Initial vShape

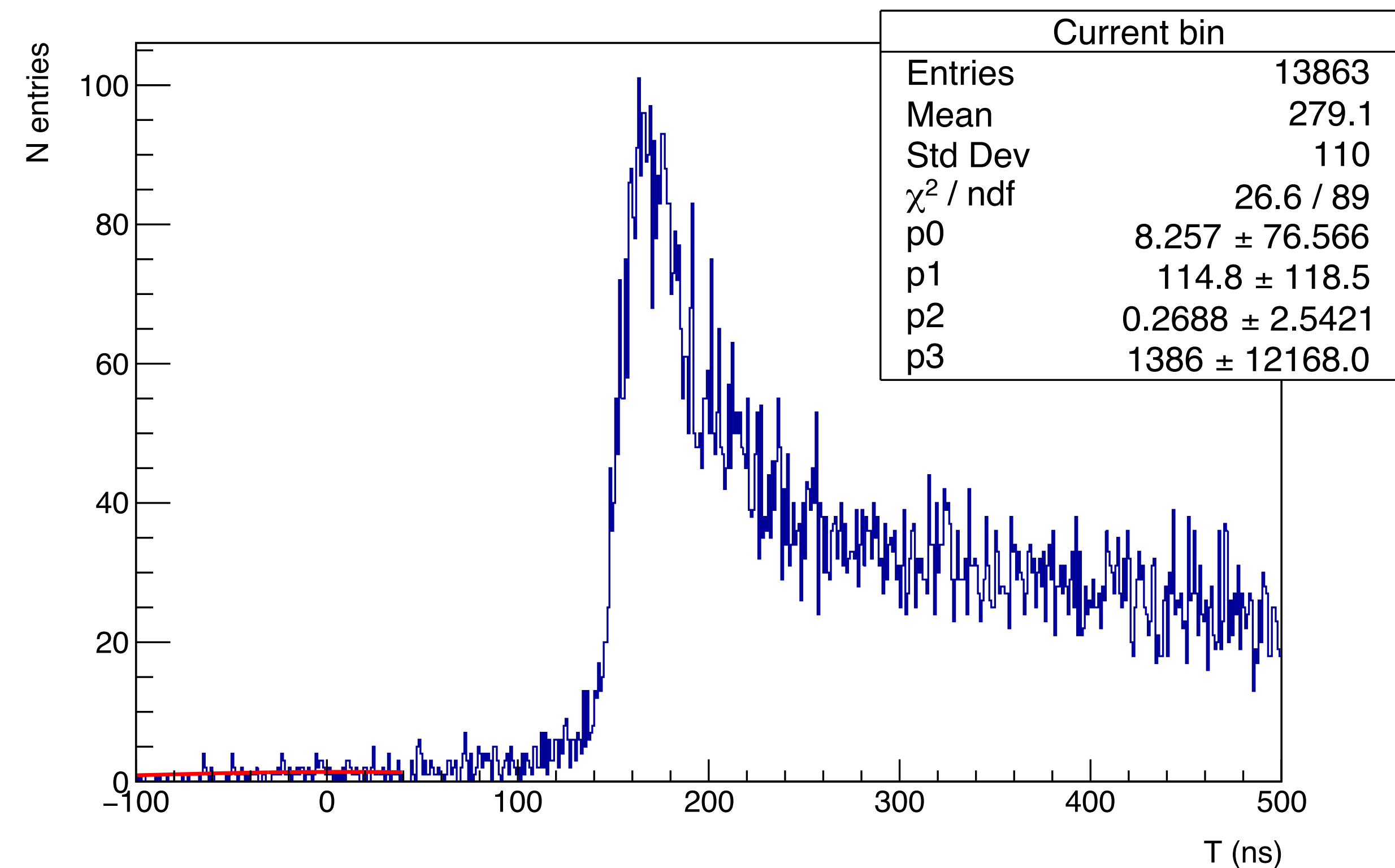




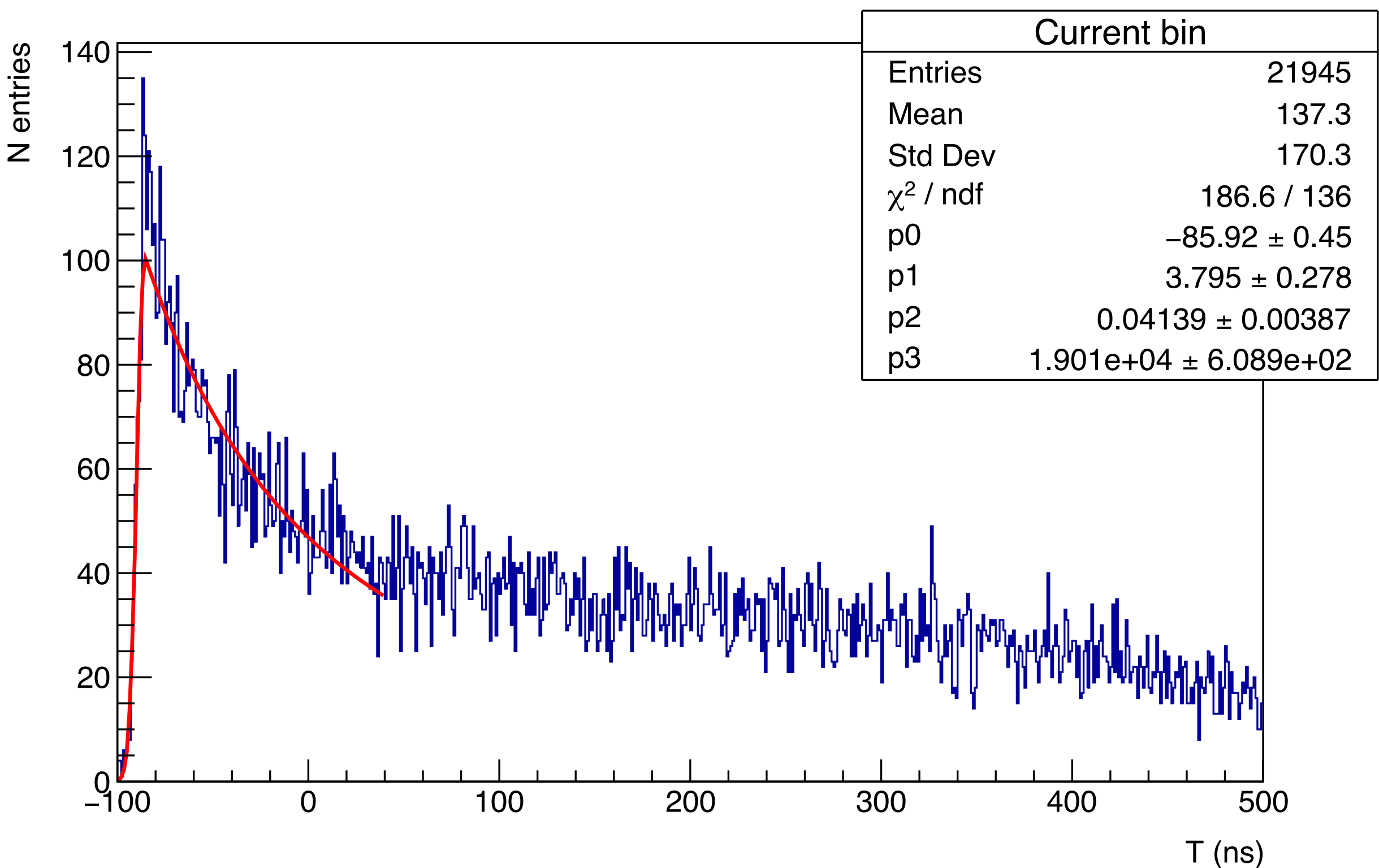
1. The weighted mean of *Coordinate resolution* distribution is **150 μm !**
2. The best time '*resolution*' is about **4 ns!**
3. Algorithm should be tuned



Unbiased residuals vs hit time for ST01X-6



Unbiased residuals vs hit time for ST01X-6



1. Fit does not converged
 2. 20 mm straw looks too ‘noisy’(?)
 3. Is it problem of the tube or of the reconstruction?