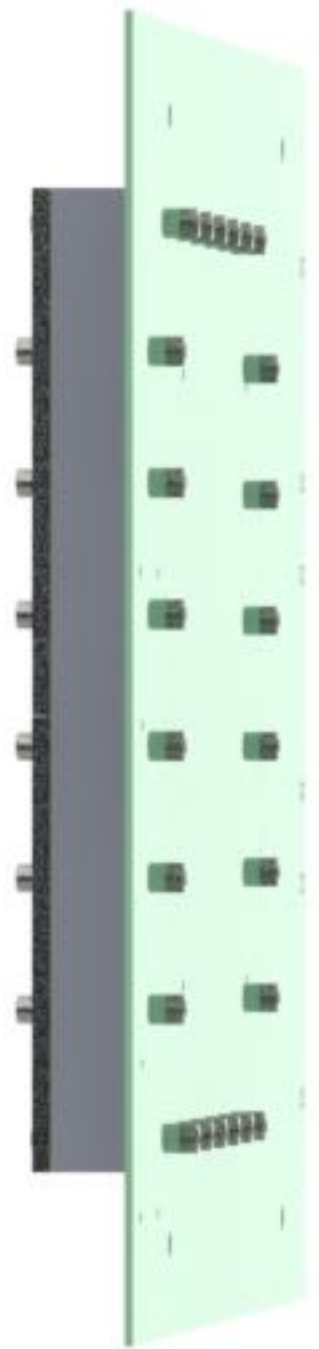


status of TB analysis

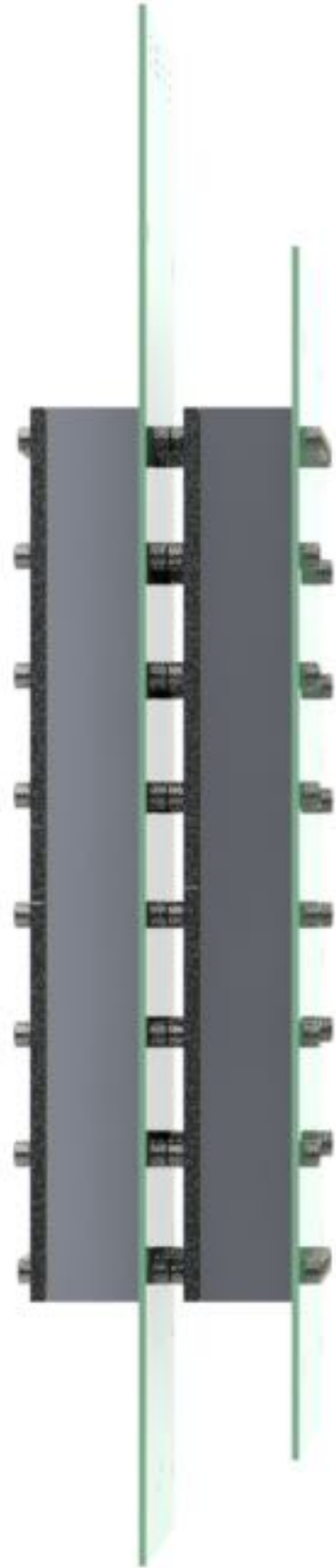
April-May 2023 (TIGER)

26/05/2023

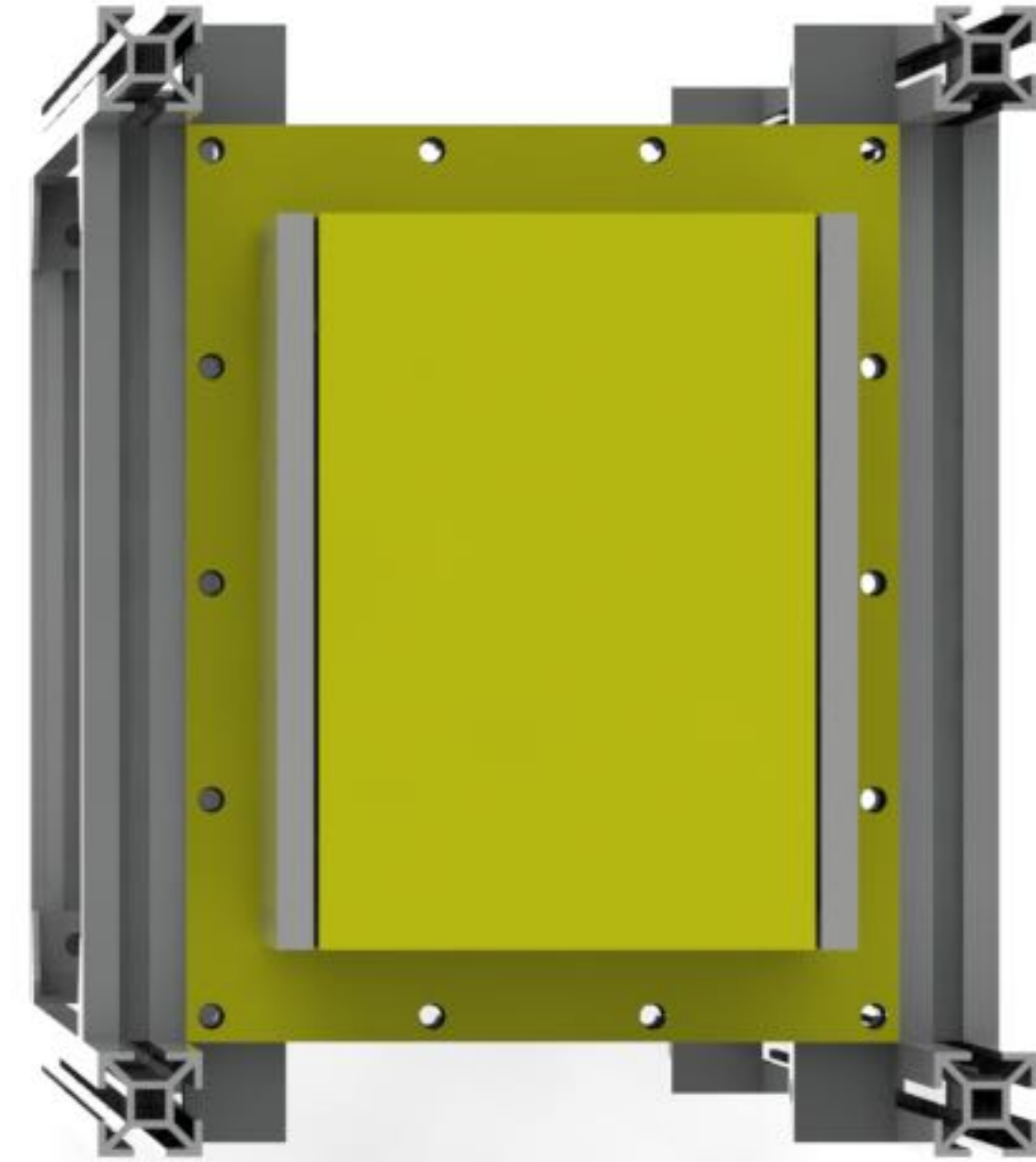
A.Zelenov



MM1



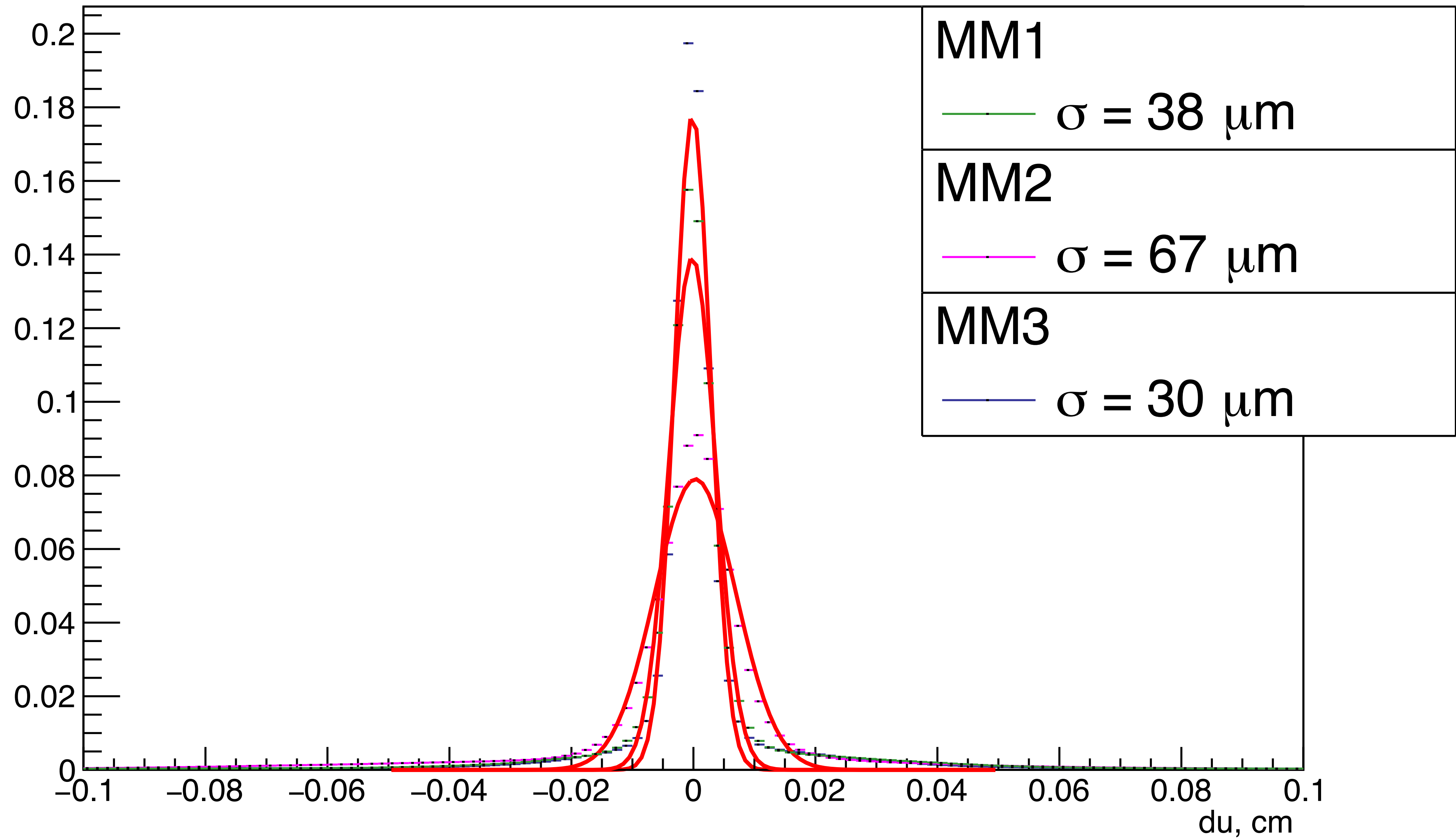
MM2



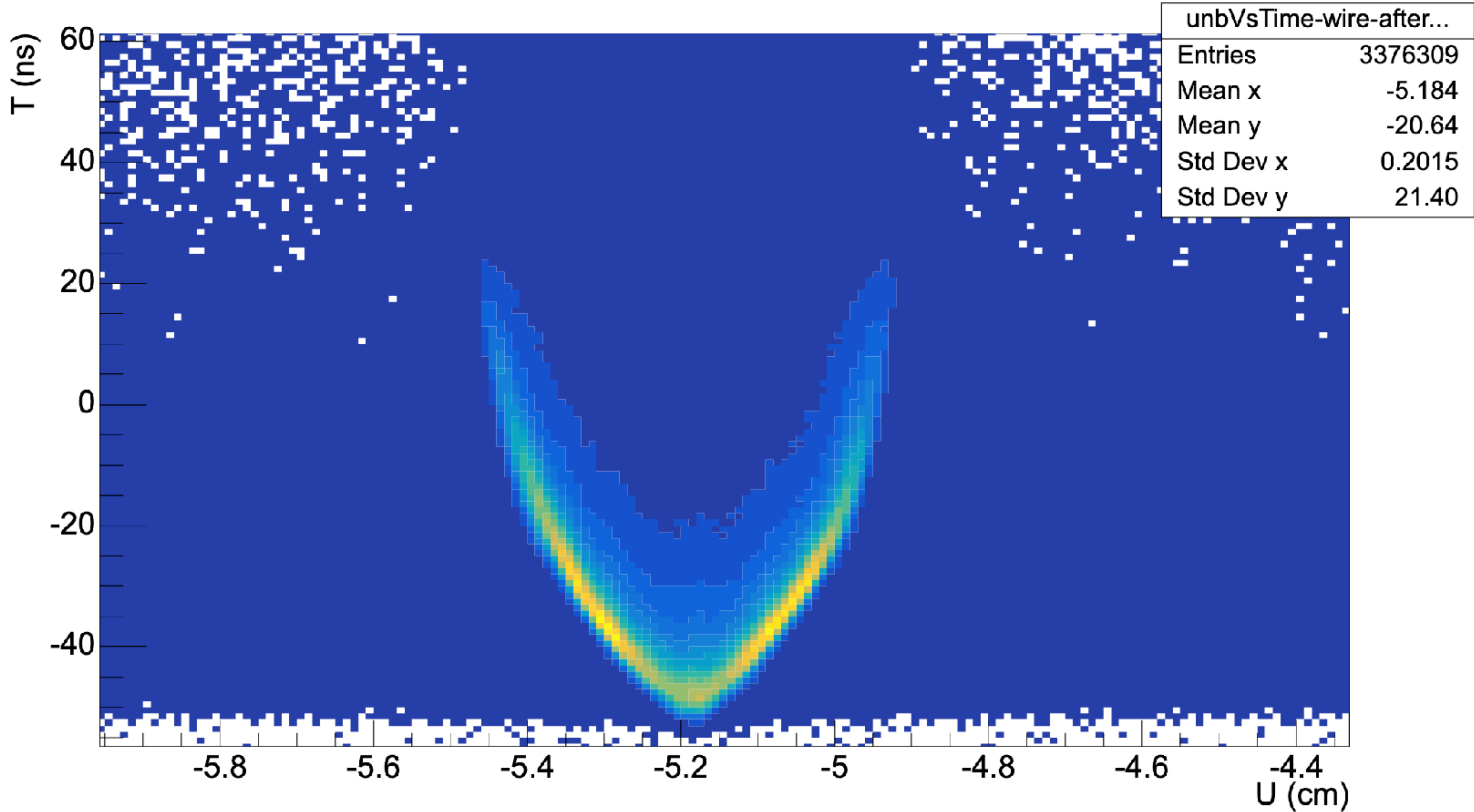
MM3

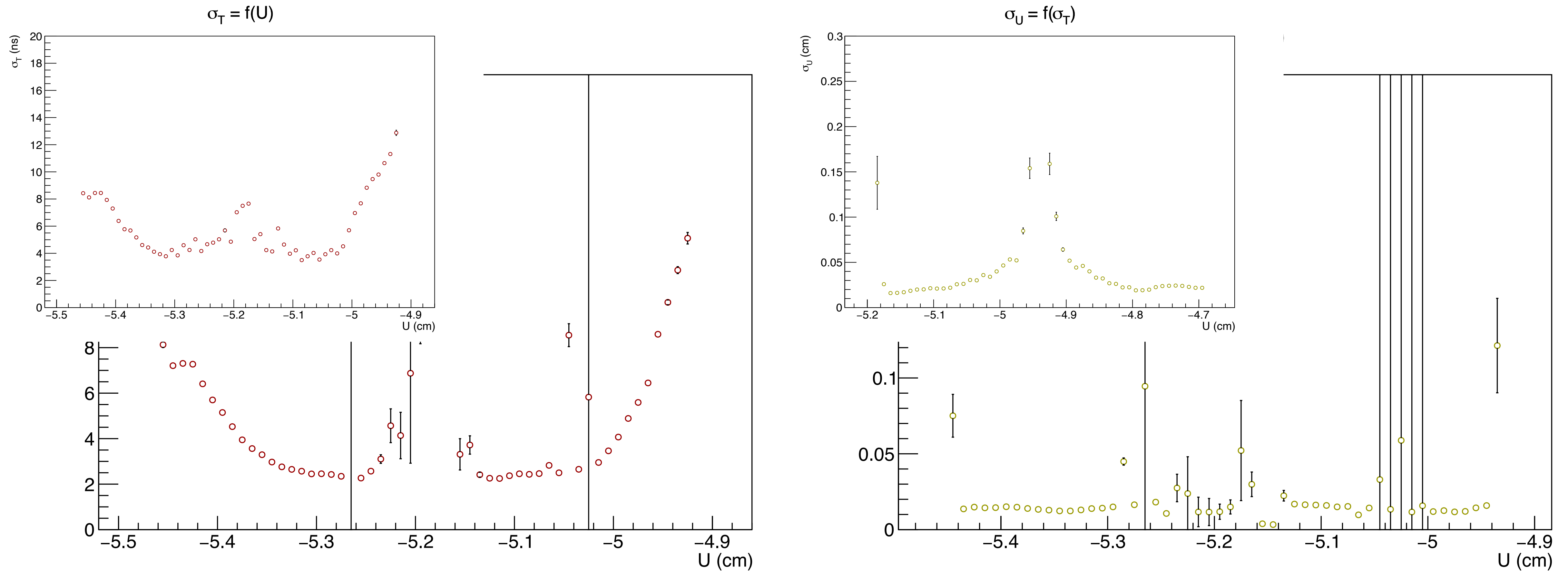


Track residuals



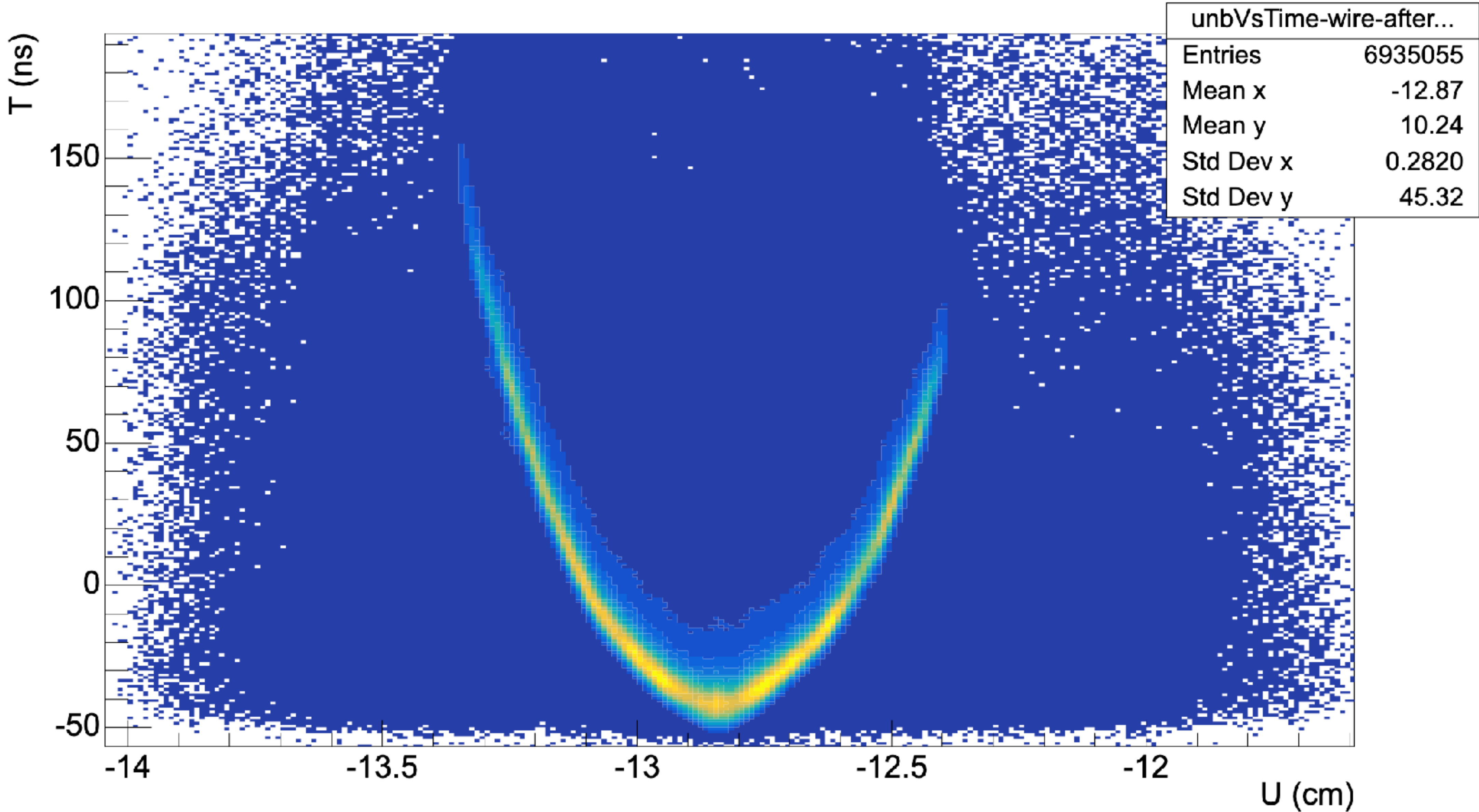
Initial vShape





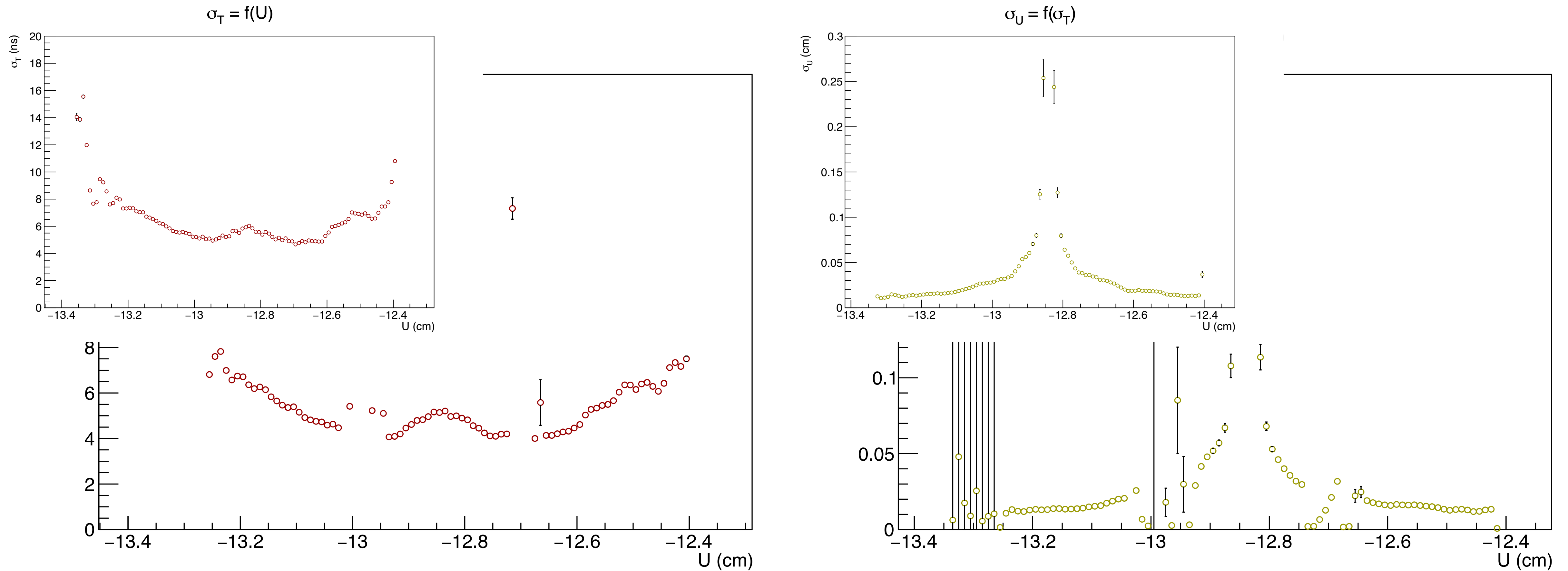
1. The weighted mean of *Coordinate resolution* distribution is **136 μm !**
2. The best time '*resolution*' is about **2 ns!**

Initial vShape

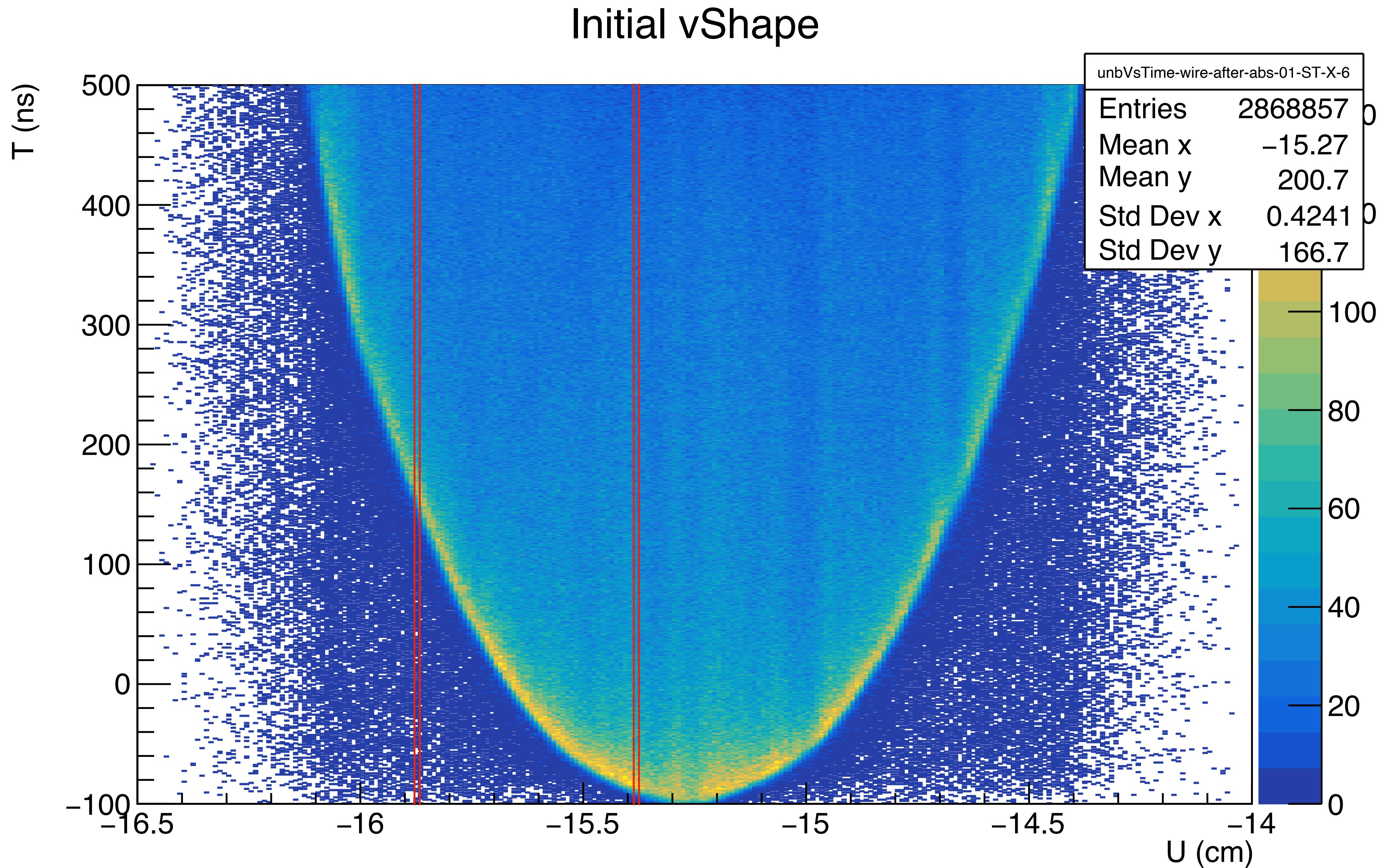


Run 72: 10mm straw (№12): CB vs Gauss

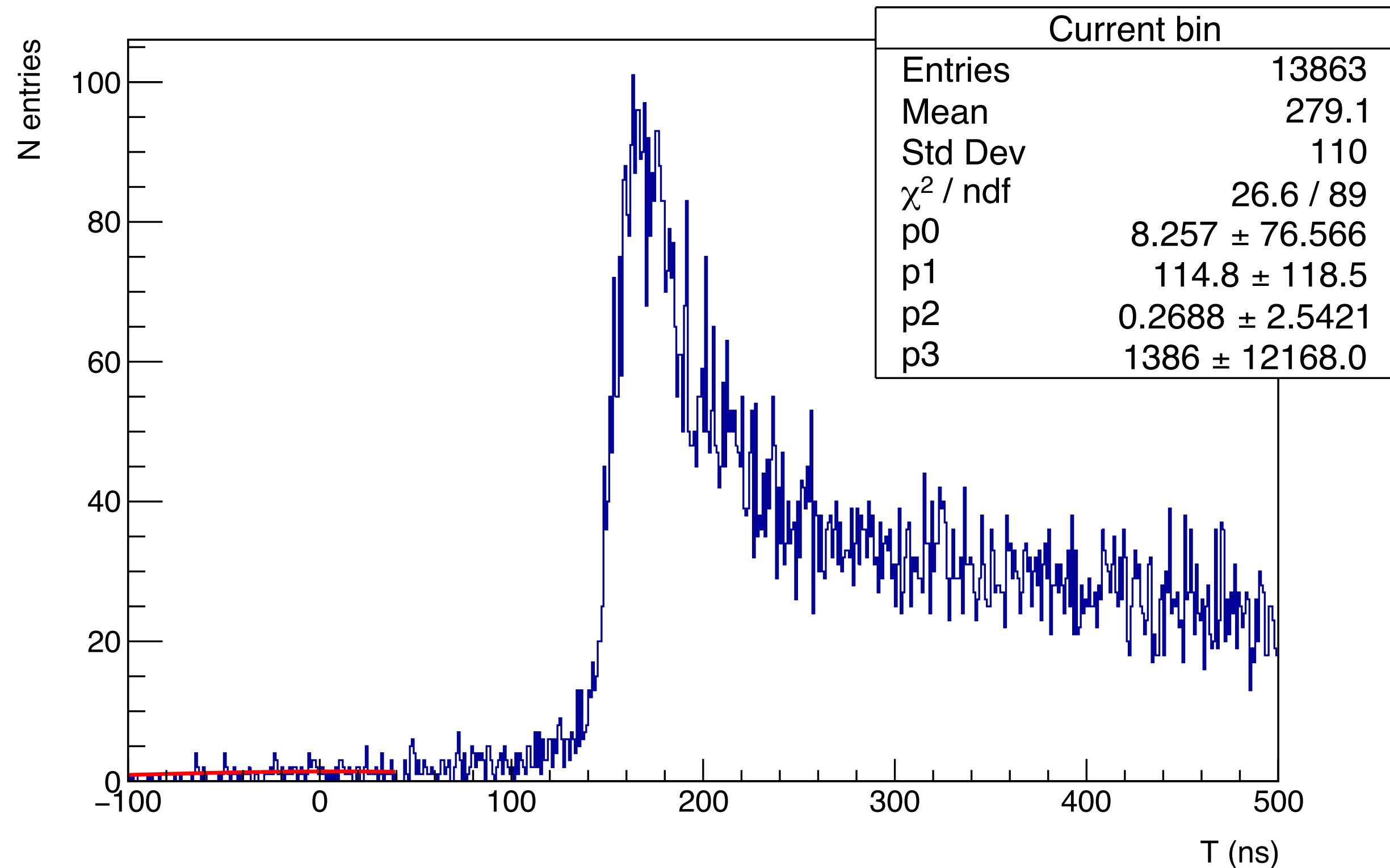
7



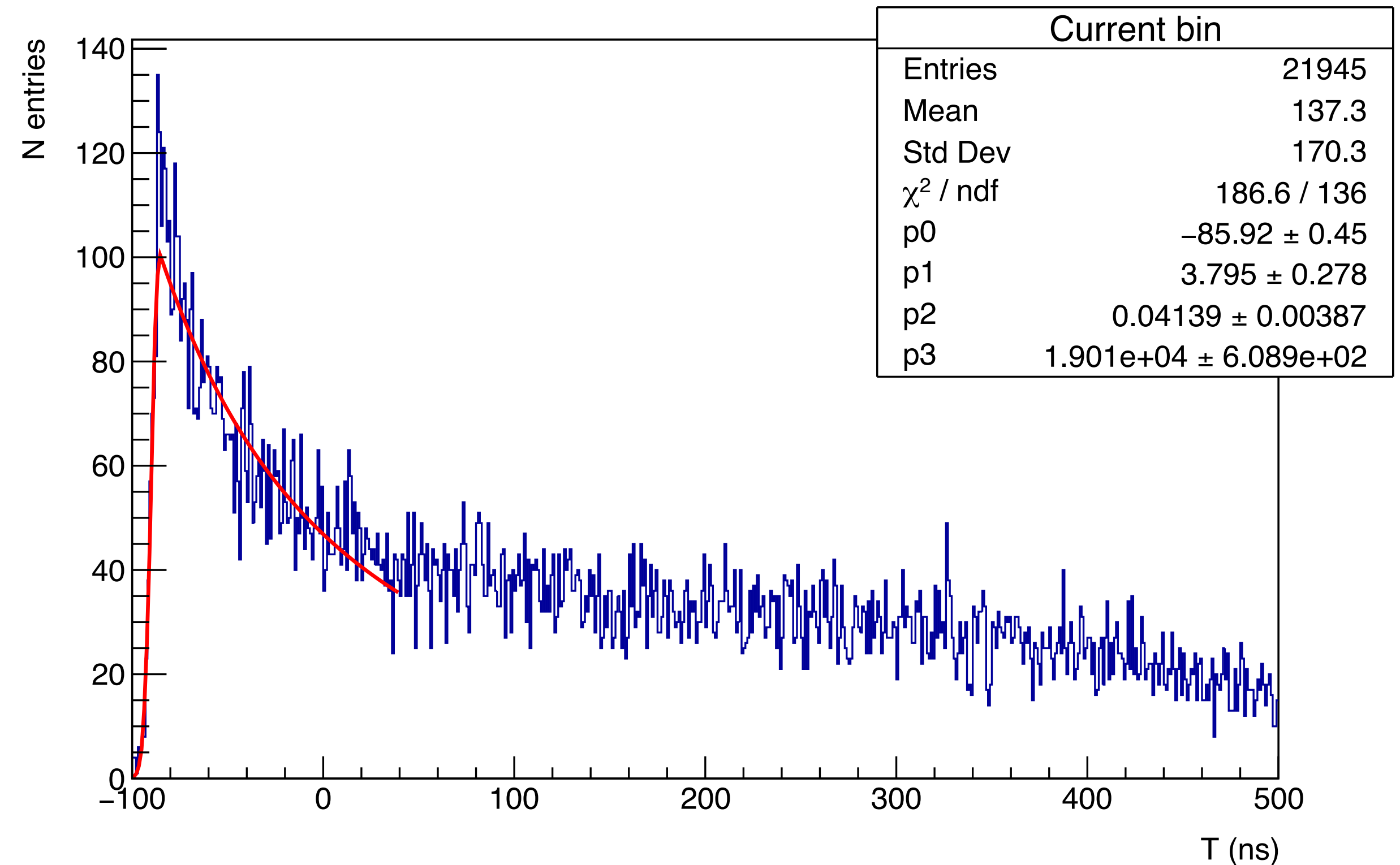
1. The weighted mean of *Coordinate resolution* distribution is **150 μm !**
2. The best time '*resolution*' is about **4 ns!**
3. Algorithm should be tuned



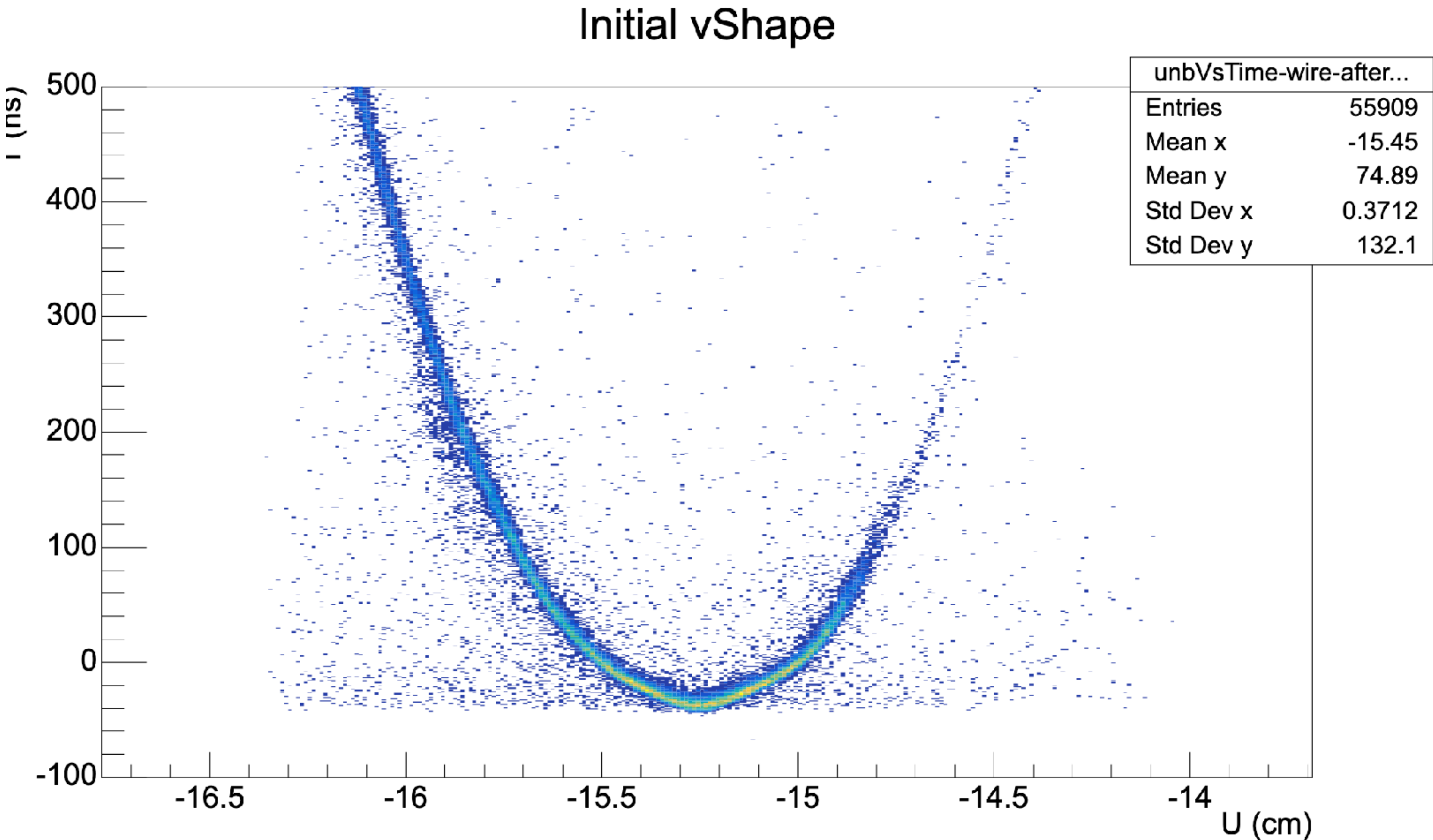
Unbiased residuals vs hit time for ST01X-6

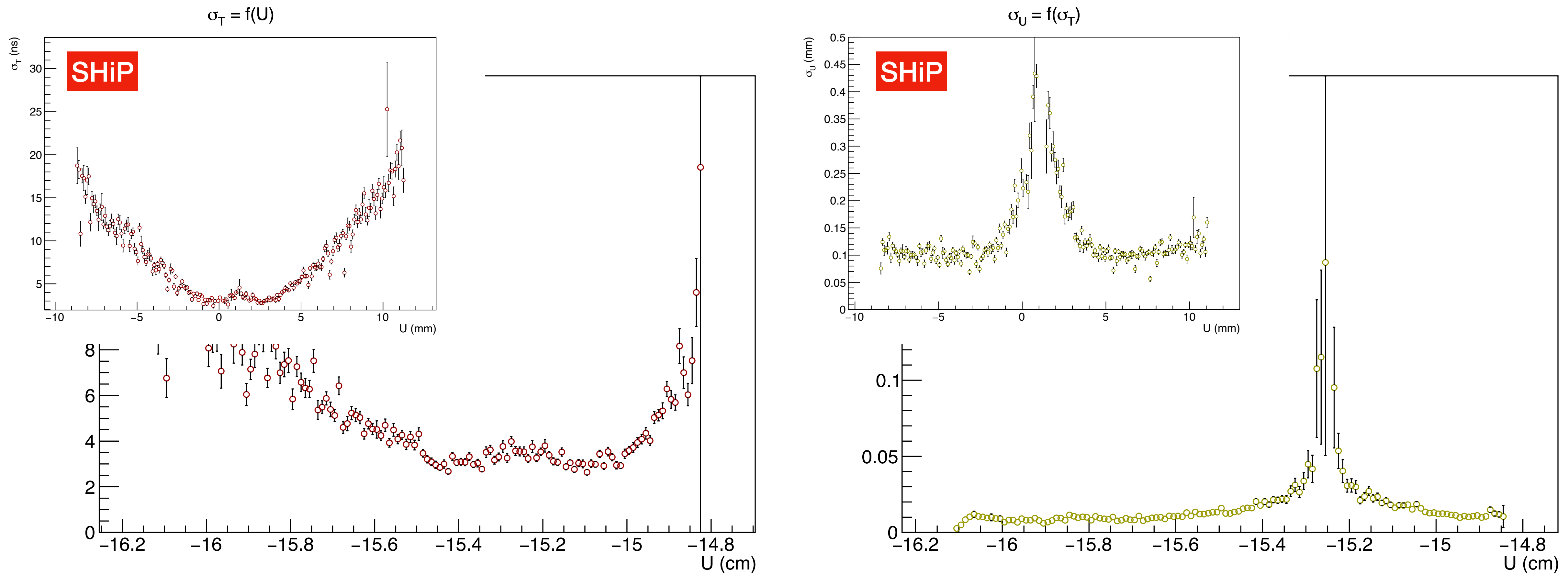


Unbiased residuals vs hit time for ST01X-6



1. Fit does not converged
2. 20 mm straw looks too 'noisy'(?)
3. Is it problem of the tube or of the reconstruction (*Dima said **NO***)?





1. The weighted mean of *Coordinate resolution* distribution is **102 μm !** 🤯
2. The best time '*resolution*' is about **3 ns!**
3. In SHiP case we also had **100 $\pm$ 5 μm**