

TofpRad meeting Data analysis update

6 giugno 2024

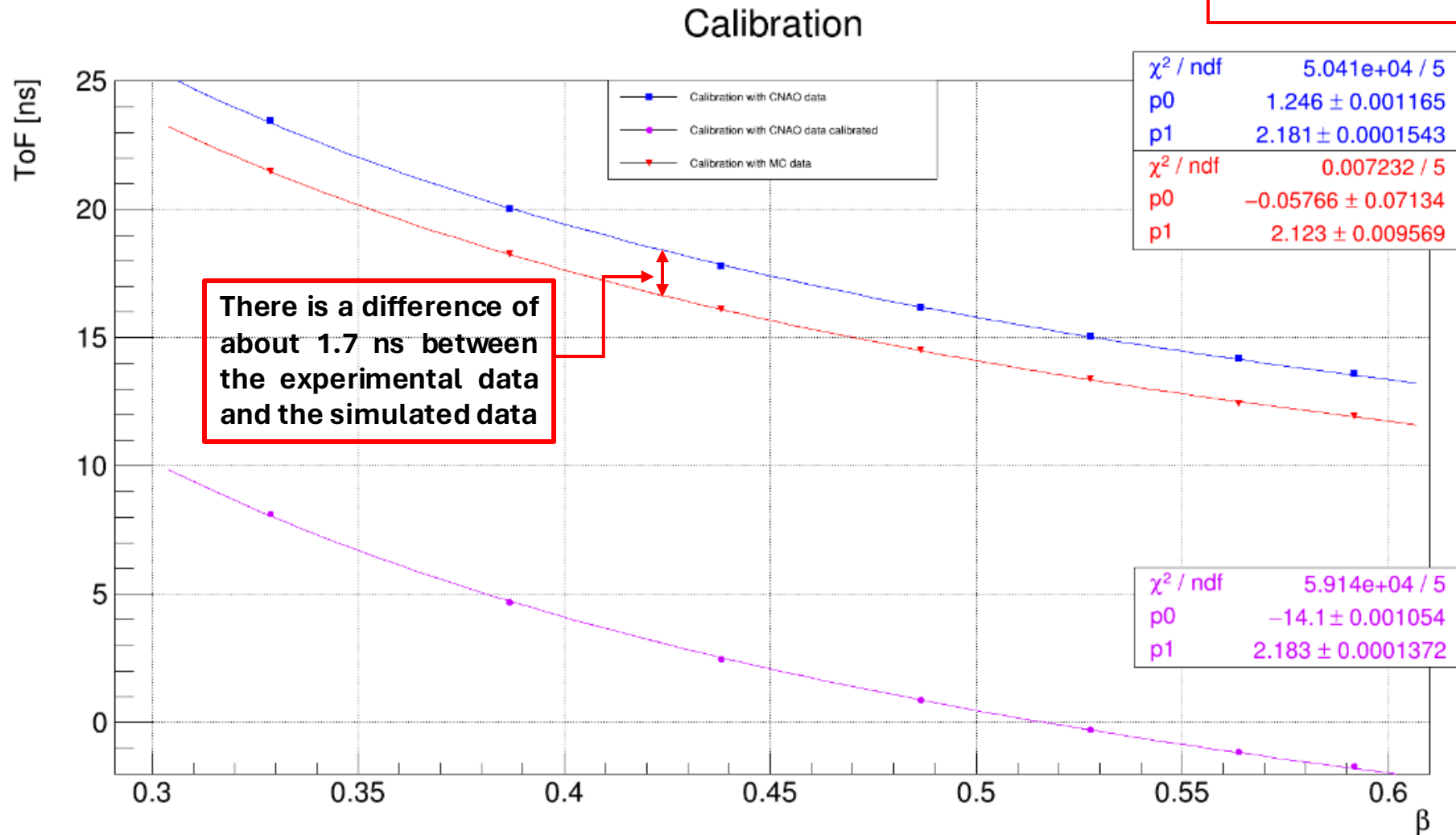
Outline

- Comparison between CNAO and MC dataset;
- Time of Flight vs xHit position on beam monitor as a function of gap position.

ToF vs β

Fit function:

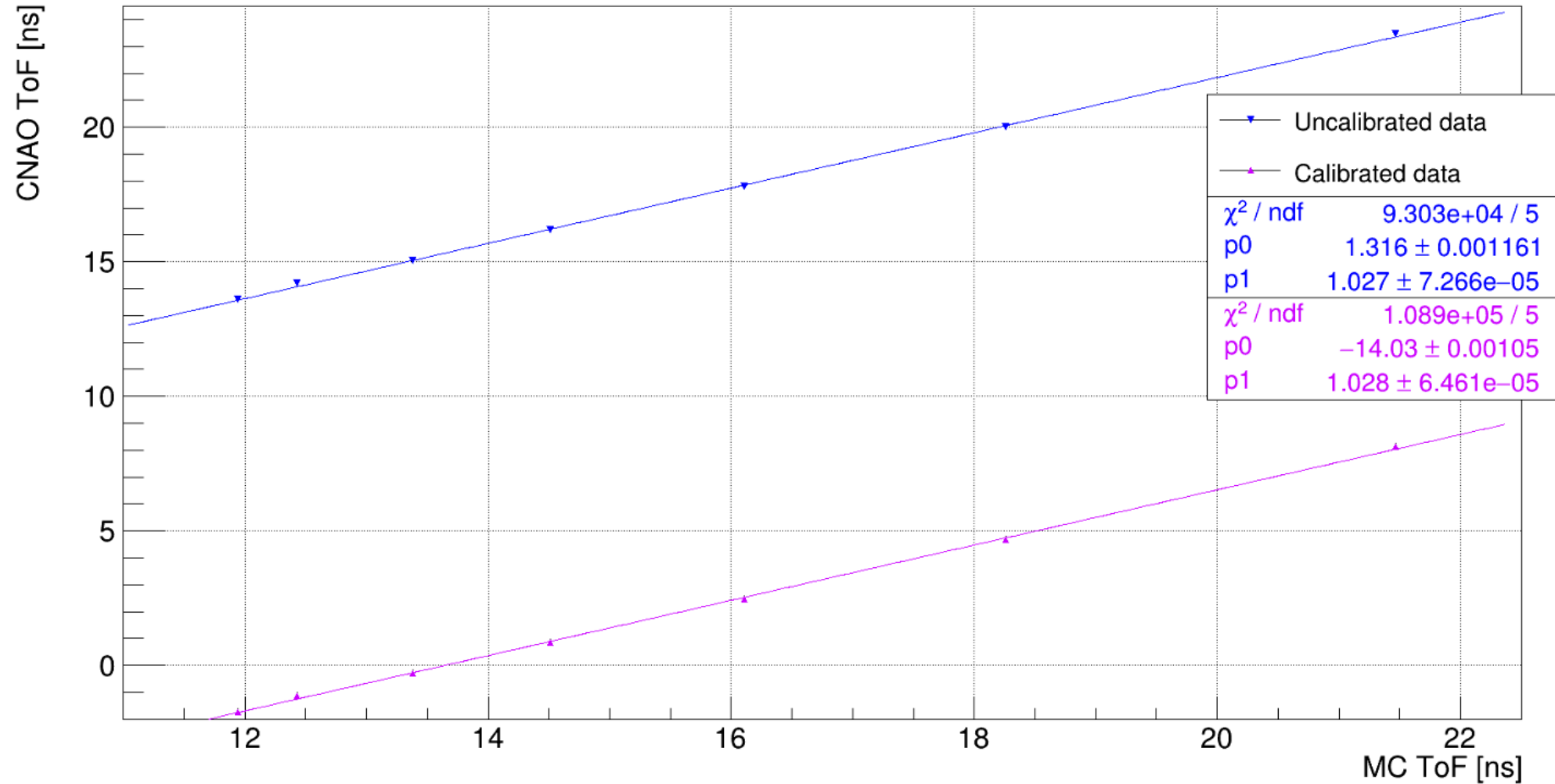
$$ToF = p_0 + \frac{p_1}{(\beta c)}$$



CNAO vs MC dataset

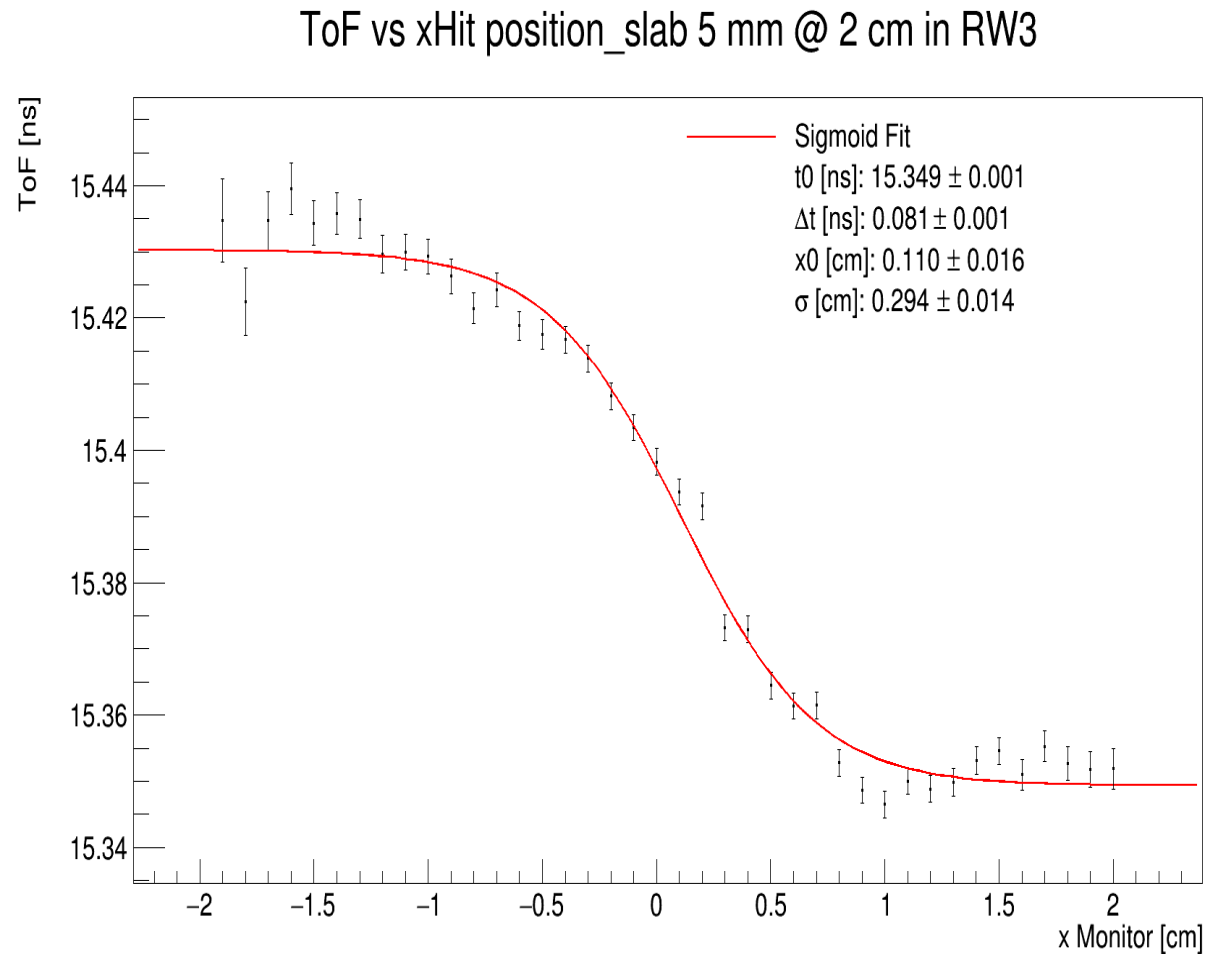
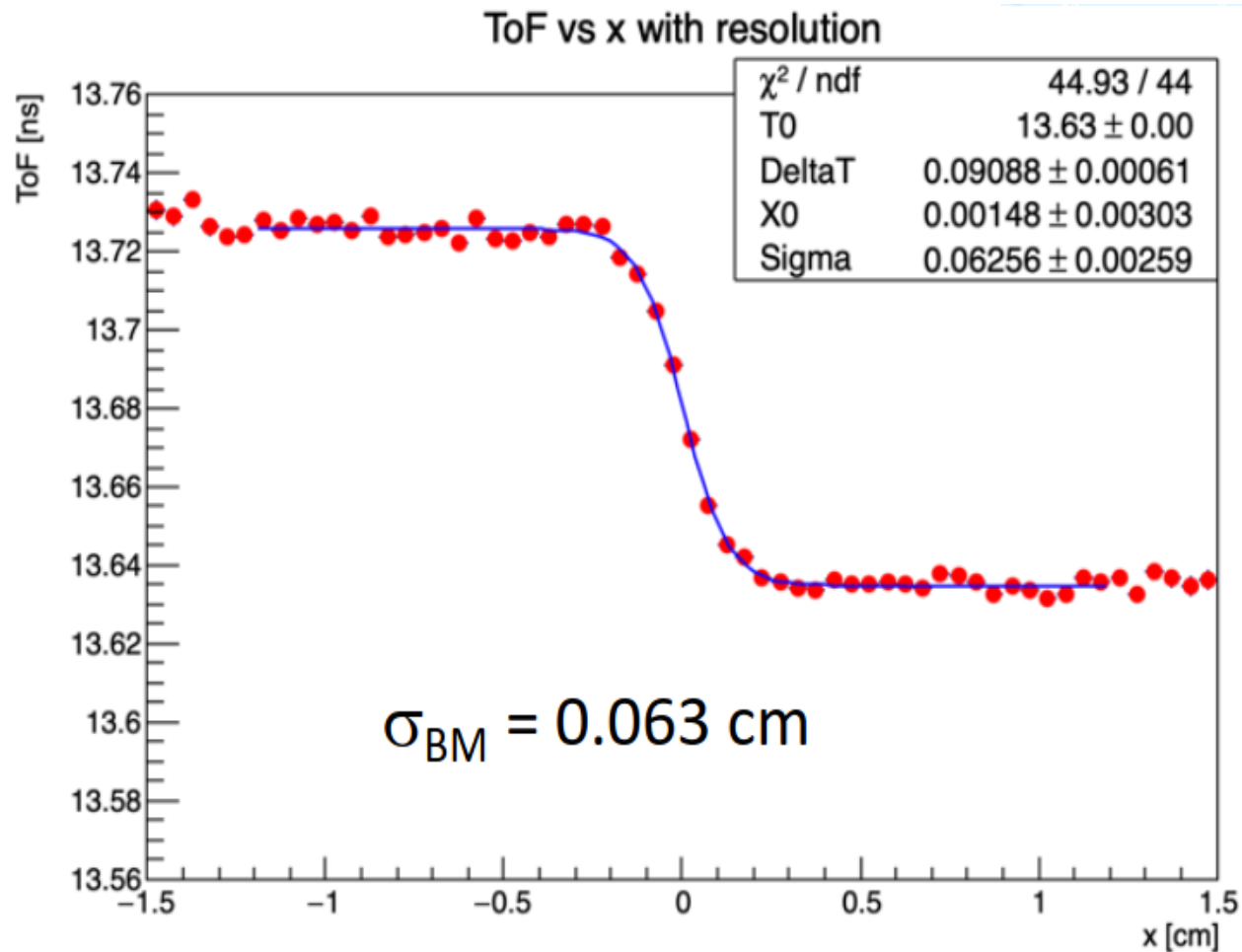
Fit function:

$$CNAO\ ToF = p_0 + p_1 MC\ ToF$$



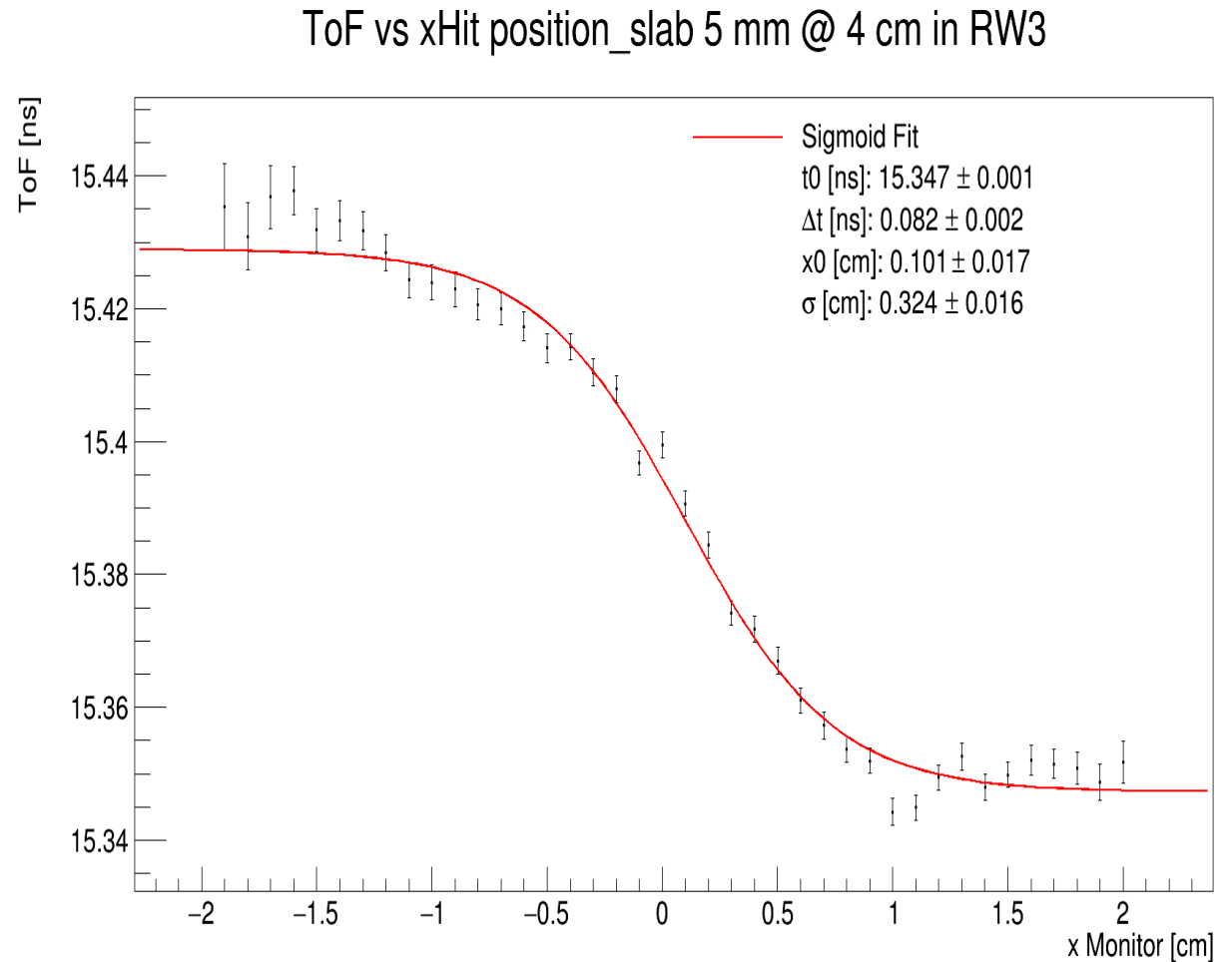
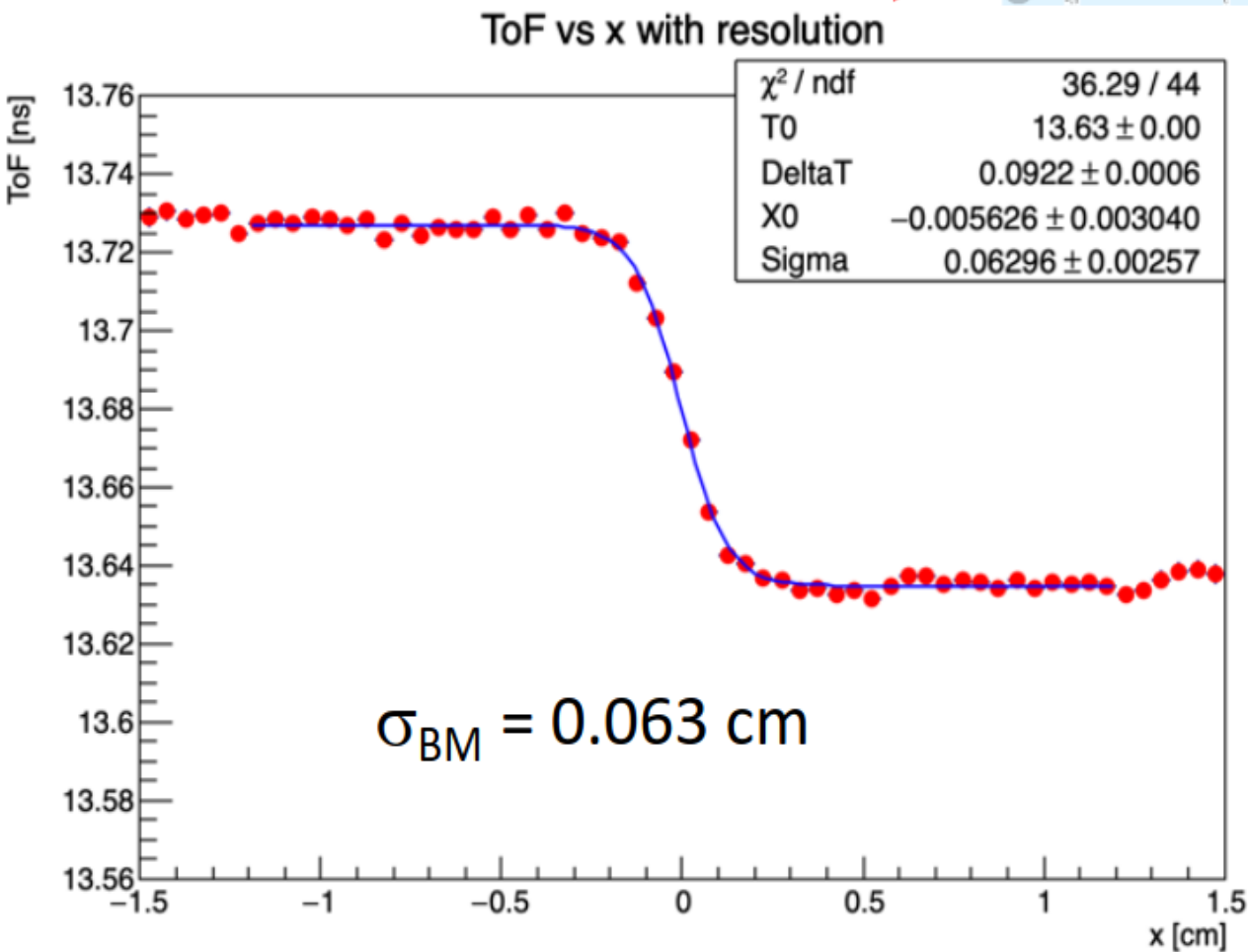
ToF vs x position on BM

5 mm slab at 2 cm in phantom



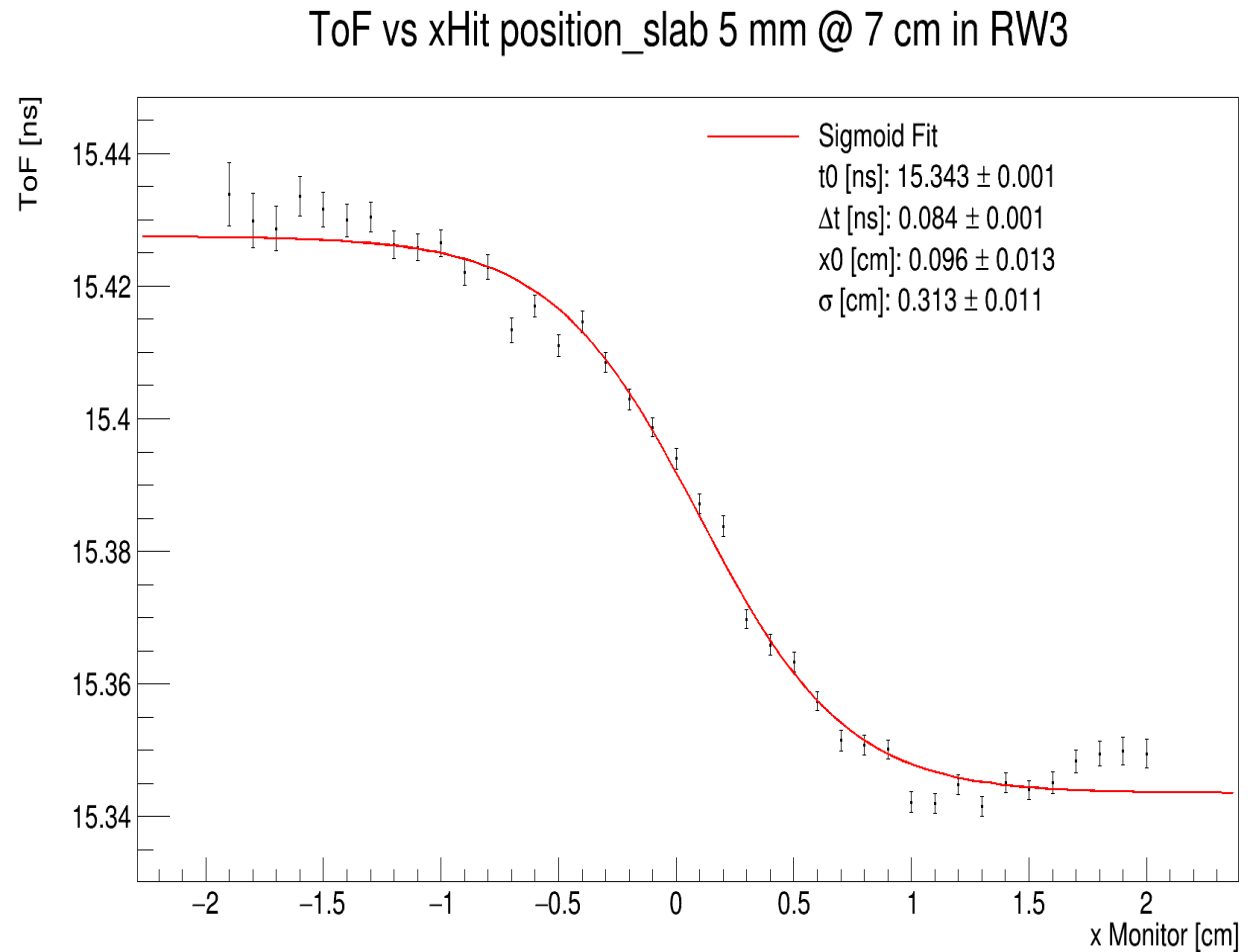
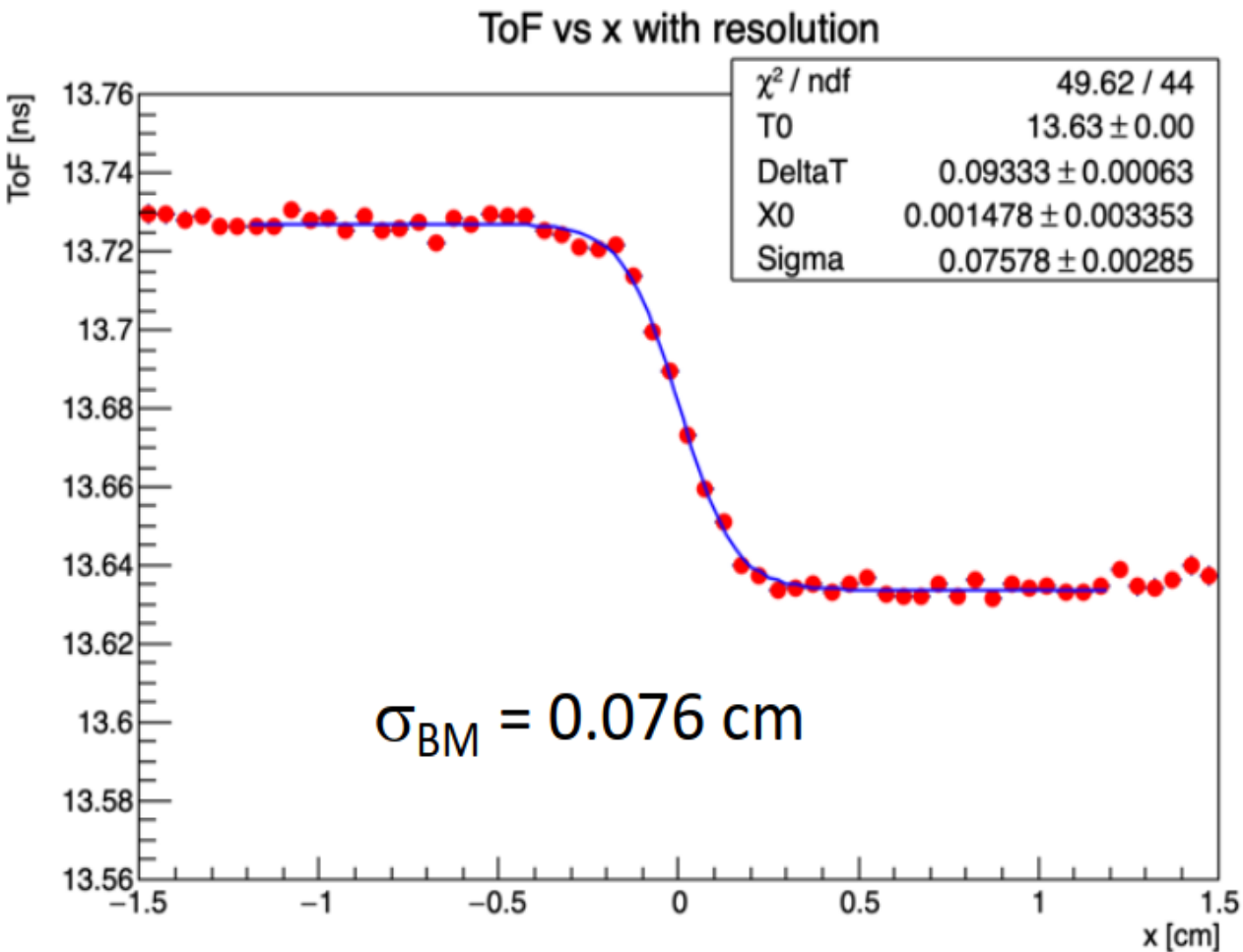
ToF vs x position on BM

5 mm slab at 4 cm in phantom



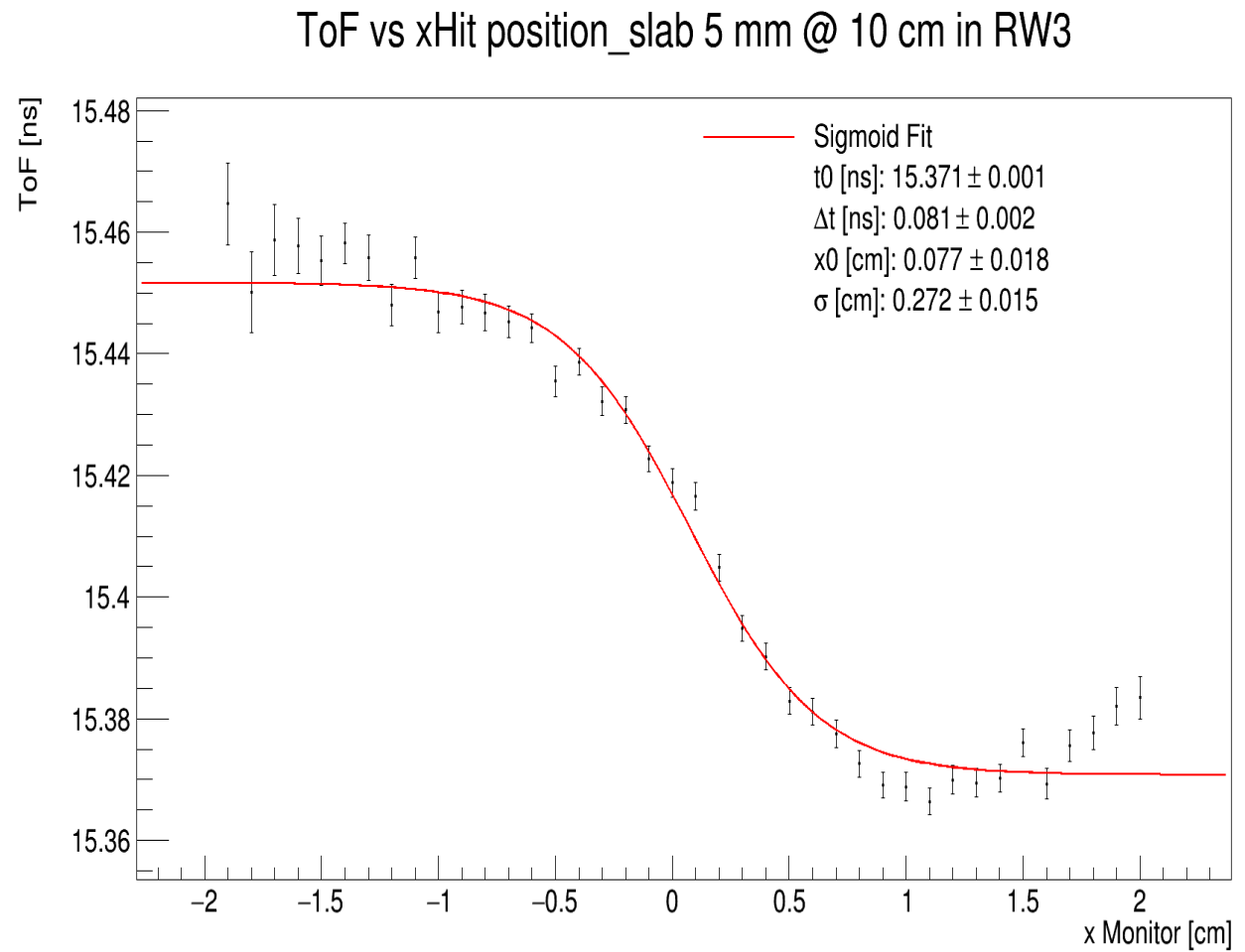
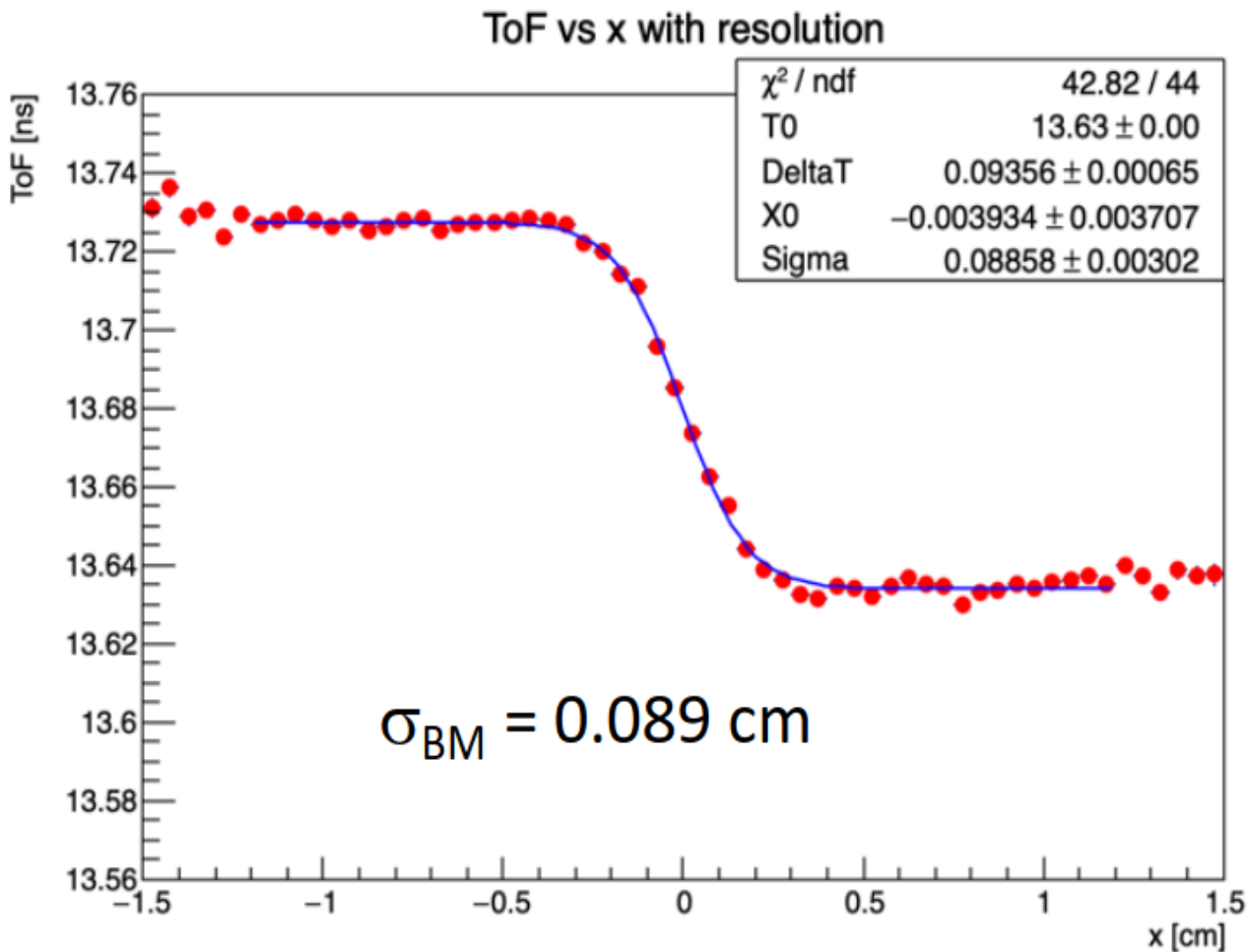
ToF vs x position on BM

5 mm slab at 7 cm in phantom



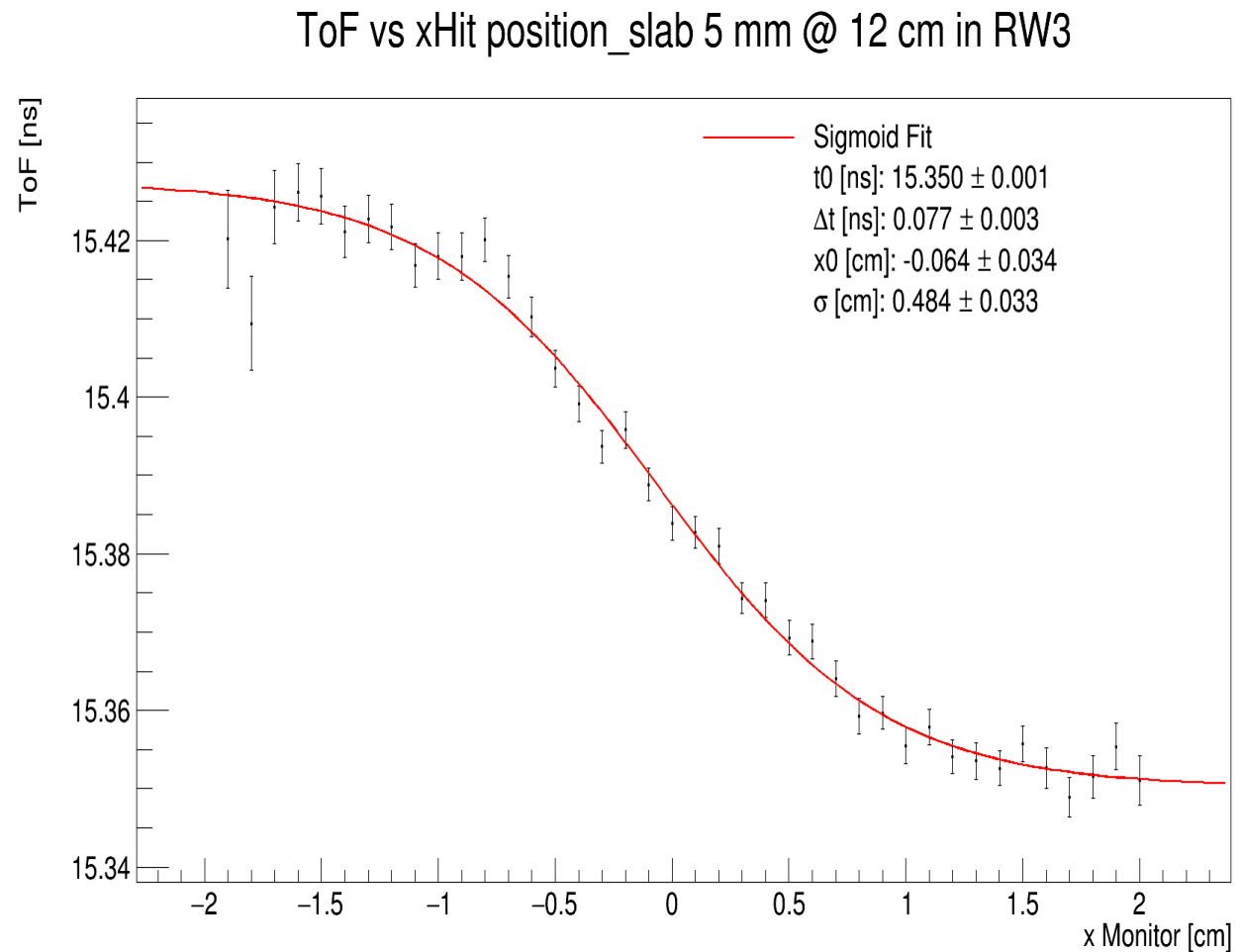
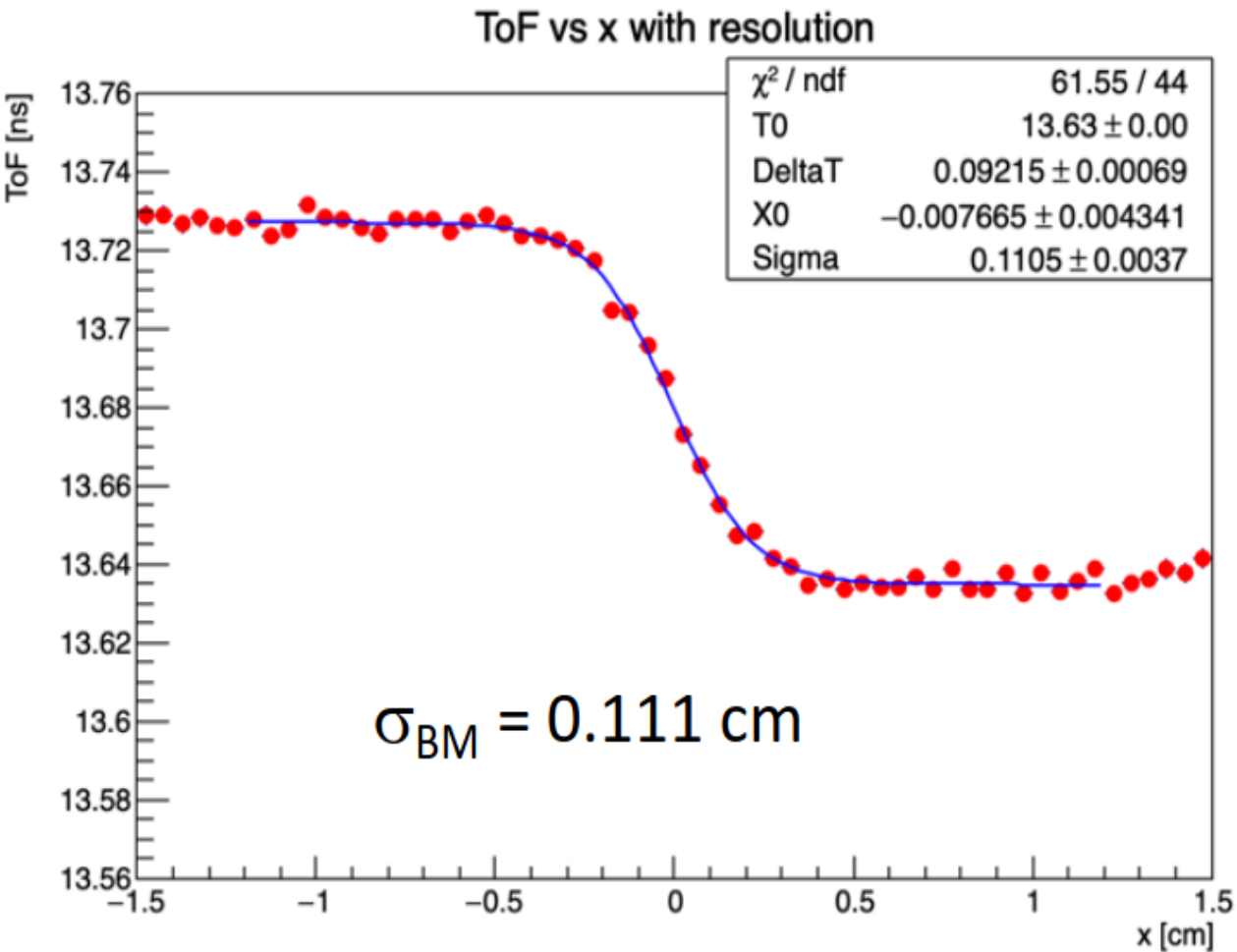
ToF vs x position on BM

5 mm slab at 10 cm in phantom



ToF vs x position on BM

5 mm slab at 12 cm in phantom



σ vs slab position

