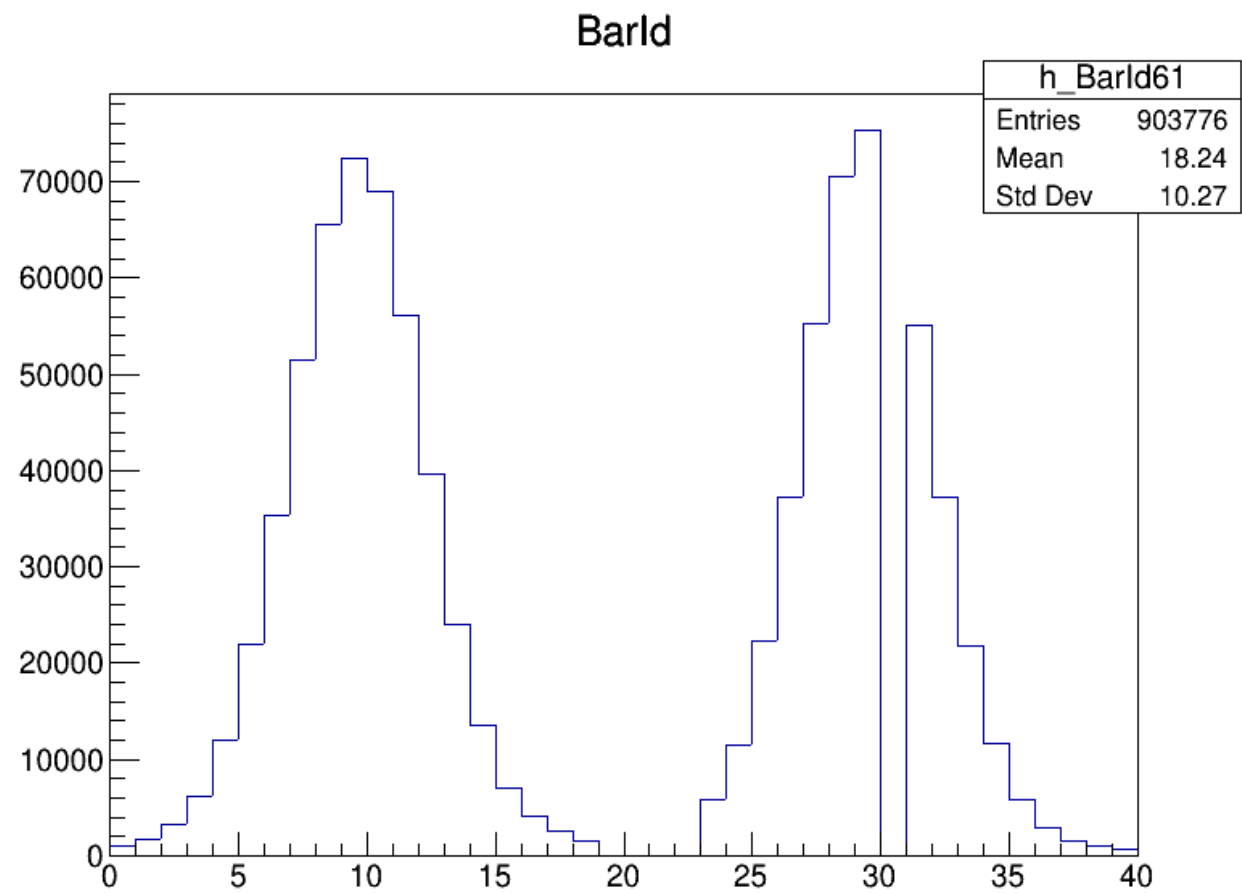
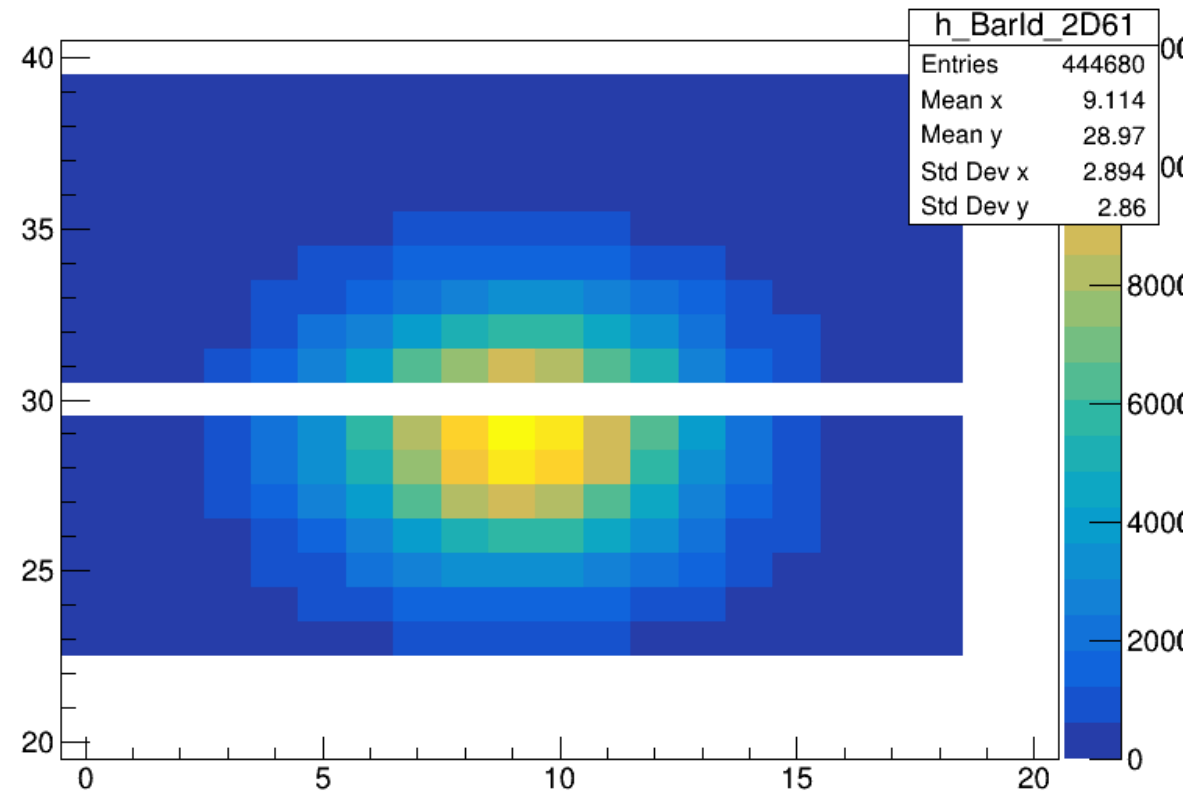


Tofprad meeting
Data analysis update
15 luglio 2025

Presa dati giugno 2025-Analisi dati con fantoccio

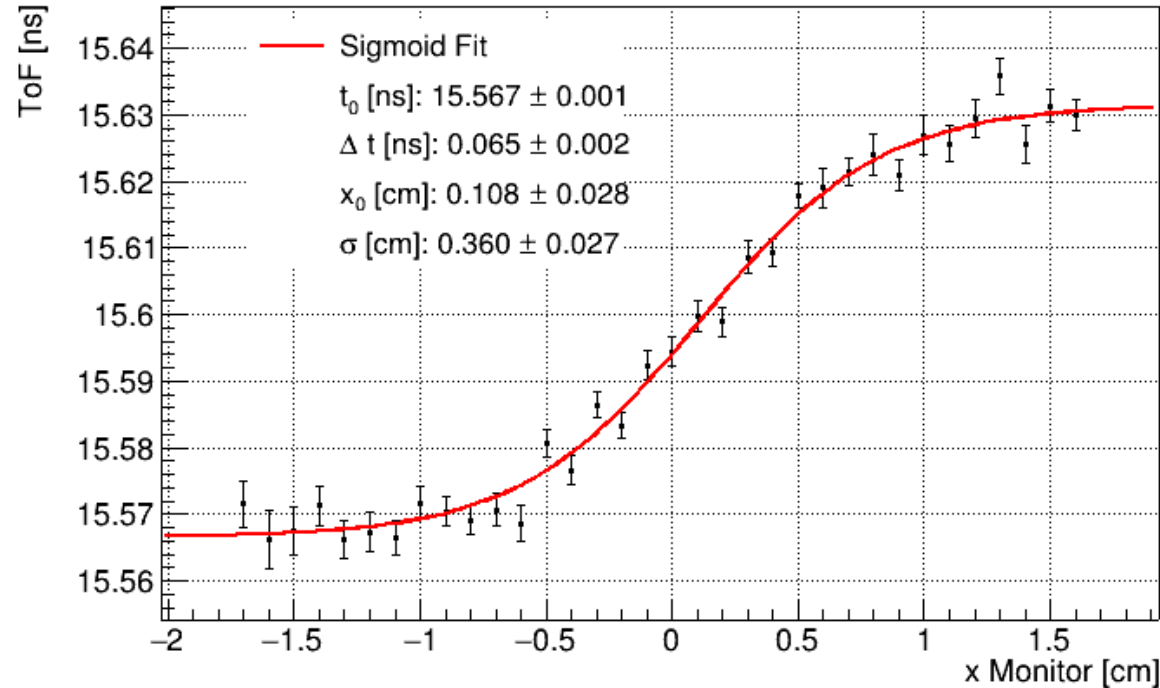
- TW map per capire funzionamento barre;
- Al variare dell'airgap sono stati ricostruiti i profili di ToF in funzione della posizione sul BM

Tof-Wall map

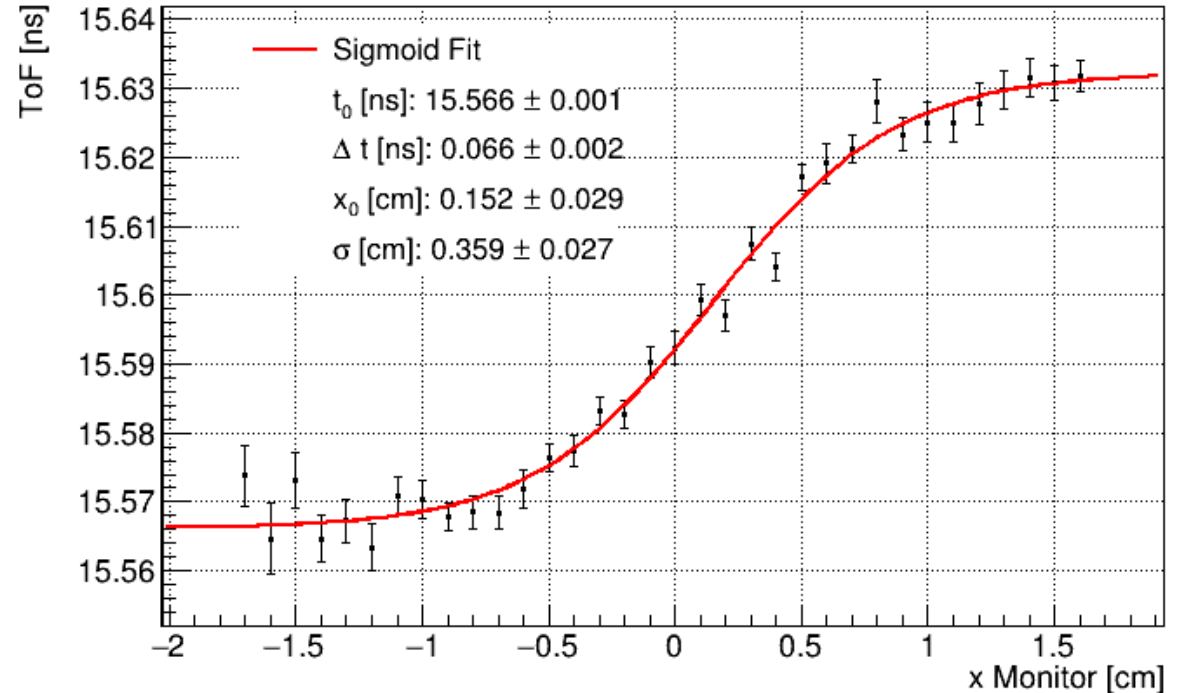


Ricostruzione profili ToF vs posizione sul BM

Time of Flight vs xHit Position [slab: 5 mm]



Time of Flight vs xHitW Position [slab: 5 mm]

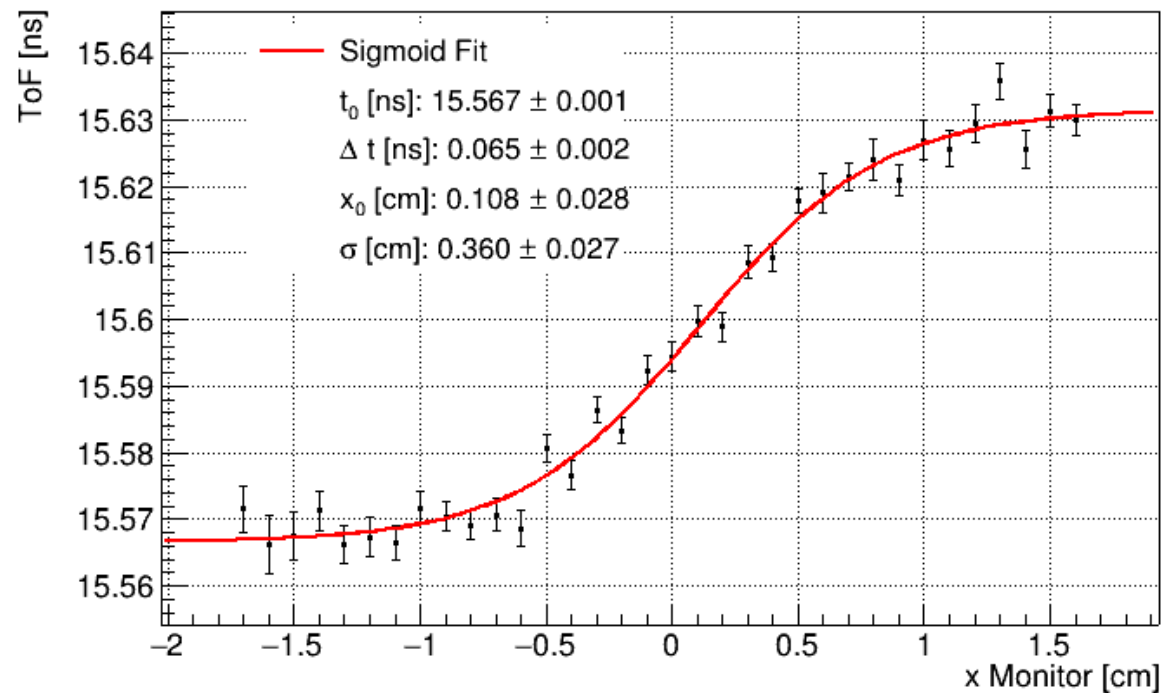


NOTA: i valori di ToF sono stati ottenuti considerando tutti gli eventi in cui si sono accese solamente 2 barre del TW, una nel layer 0 e una nel layer 1.

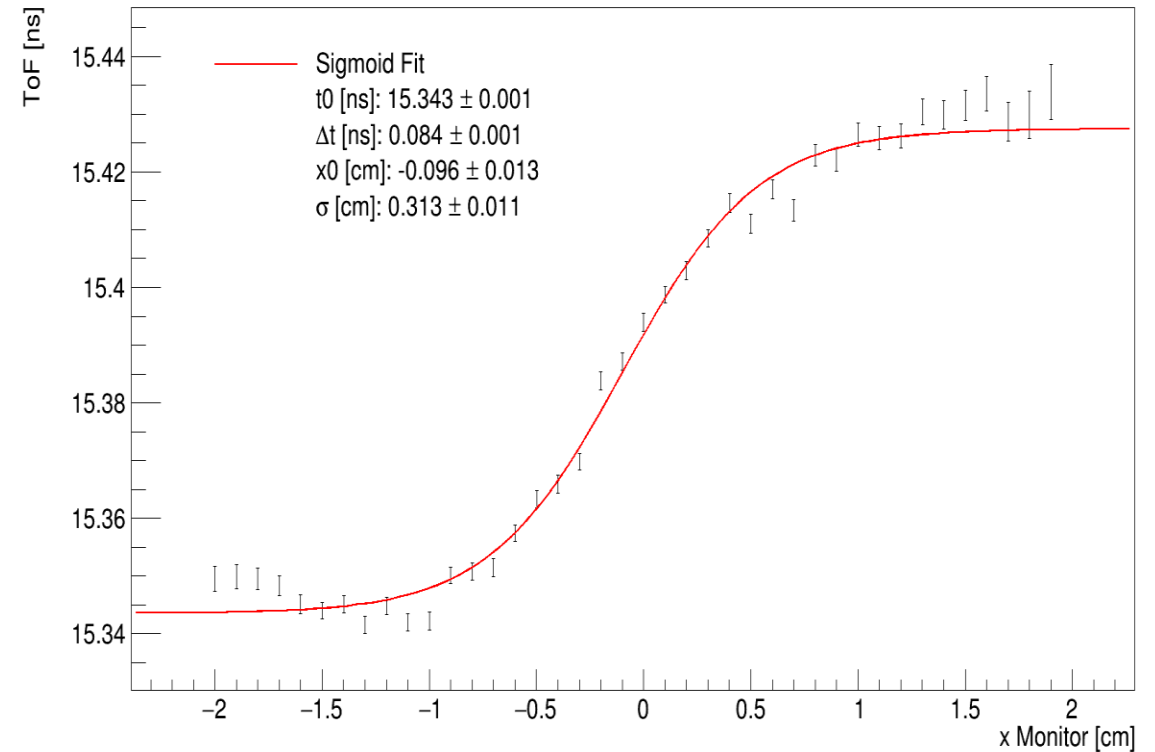
$$ToF = \left(\frac{TimeBar_{layer0} + TimeBar_{layer1}}{2} \right) - Time_{StartCounter}$$

Confronto con profili presa dati febbraio24

Time of Flight vs xHit Position [slab: 5 mm]

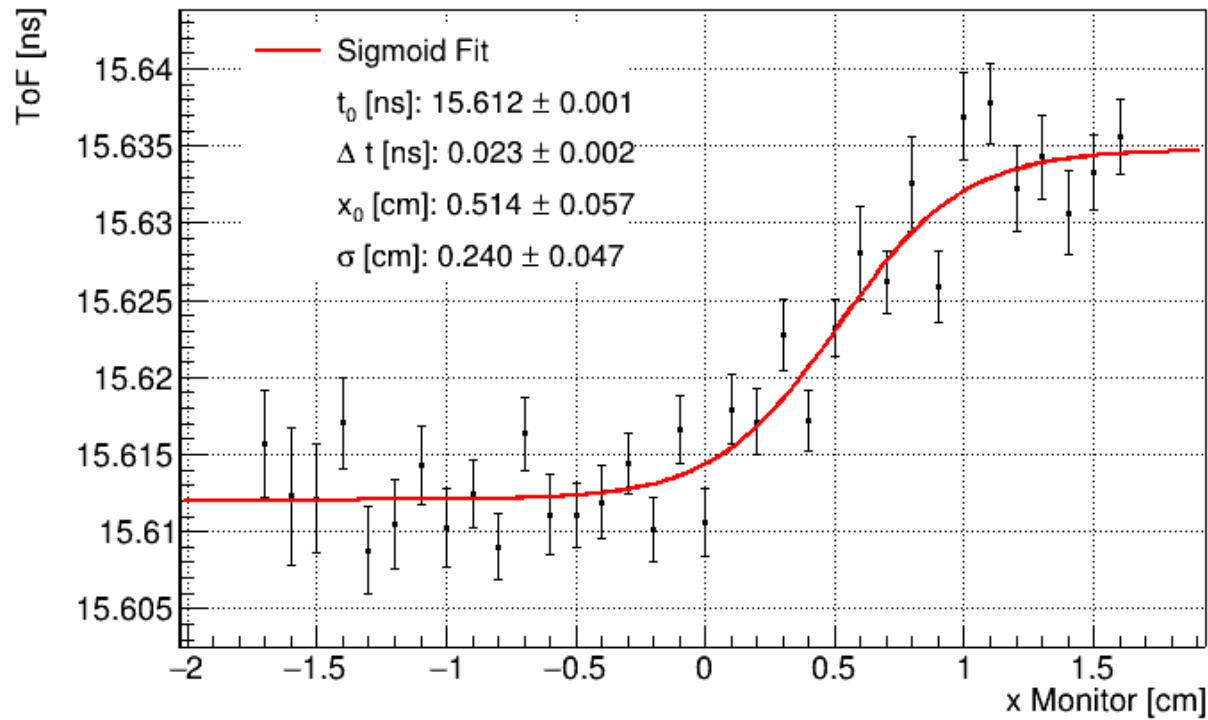


Time of Flight vs xHit Position_slab: 5 mm

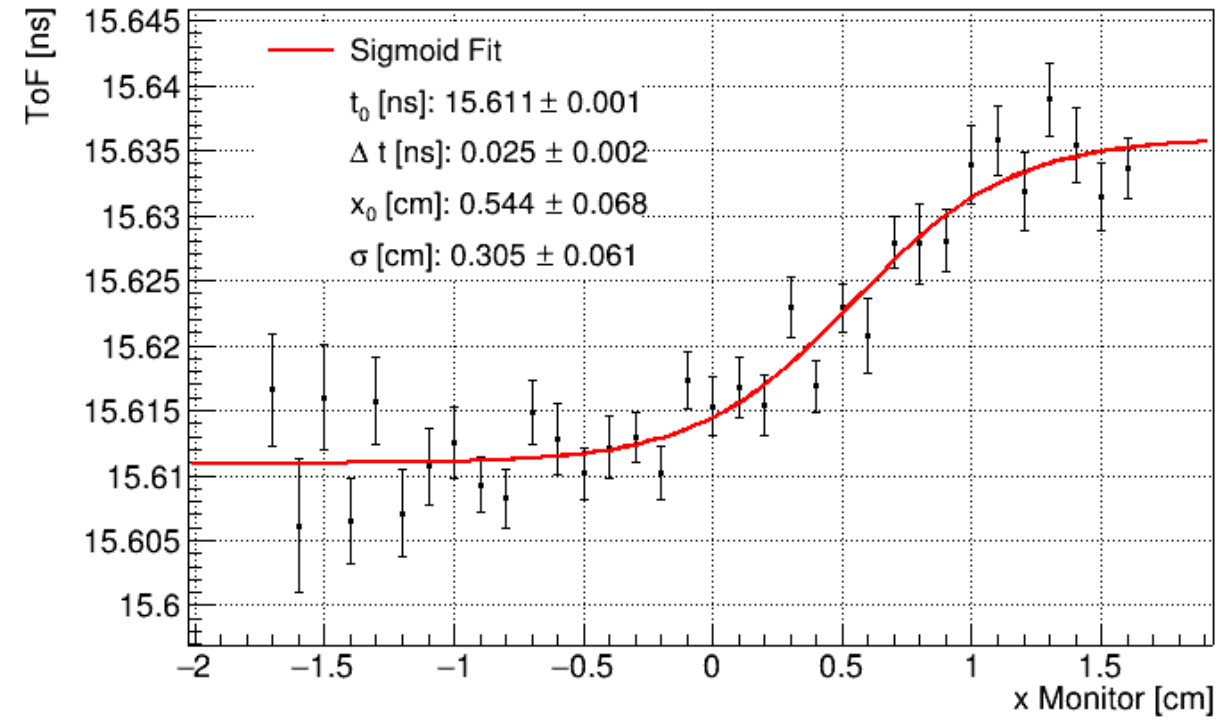


Ricostruzione profili ToF vs posizione sul BM

Time of Flight vs xHit Position [slab: 2 mm]

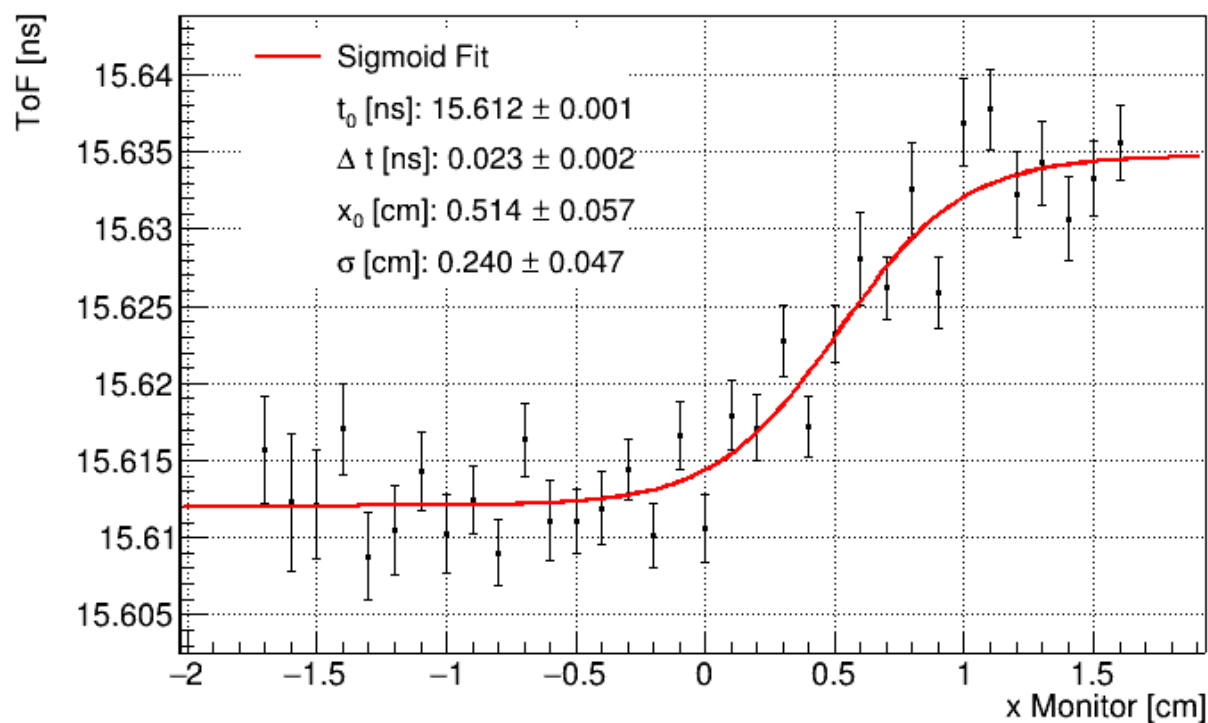


Time of Flight vs xHitW Position [slab: 2 mm]

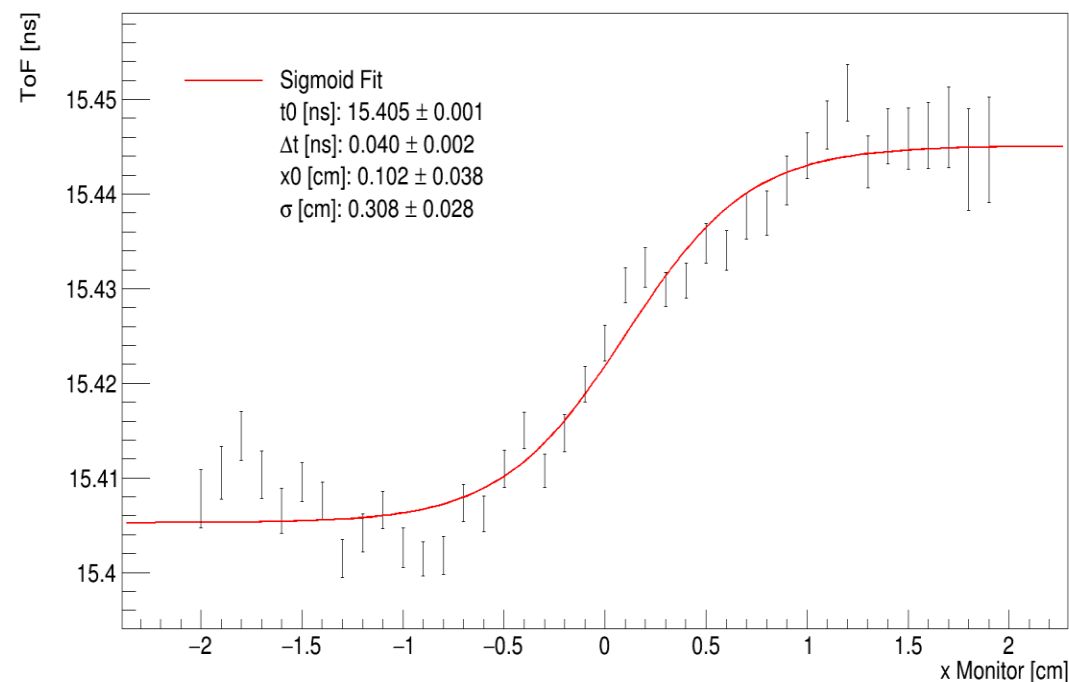


Confronto con profili presa dati febbraio24

Time of Flight vs xHit Position [slab: 2 mm]

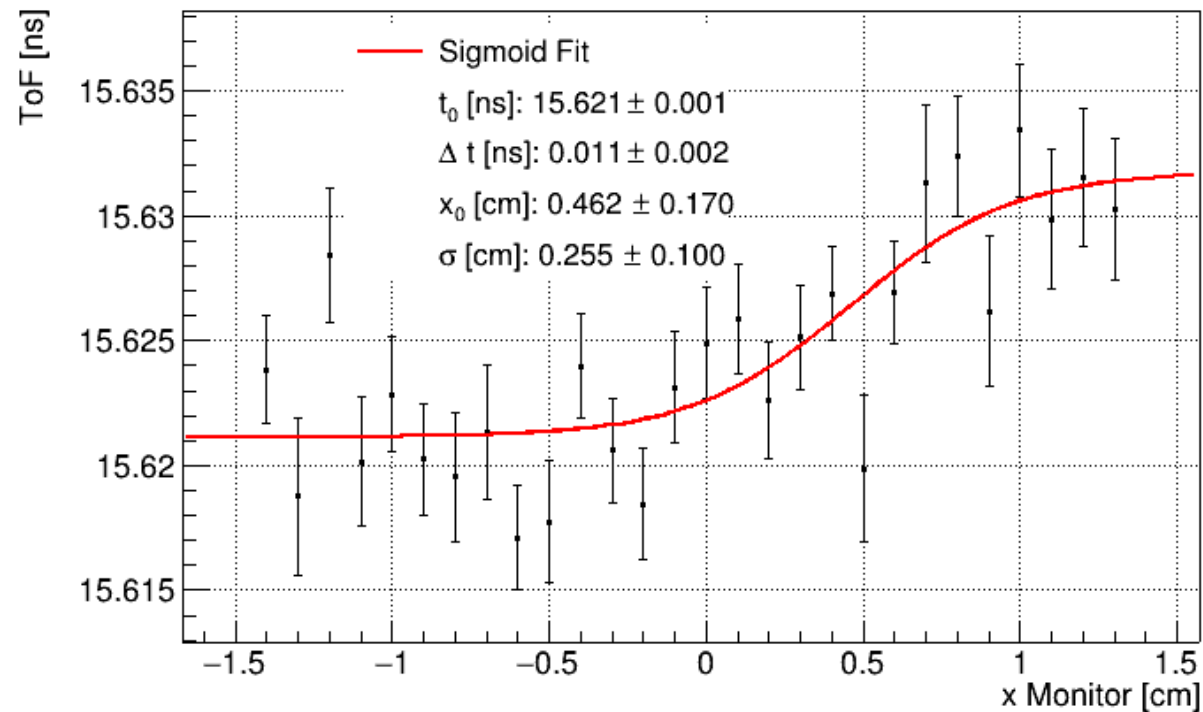


Time of Flight vs xHit Position_slab: 2 mm

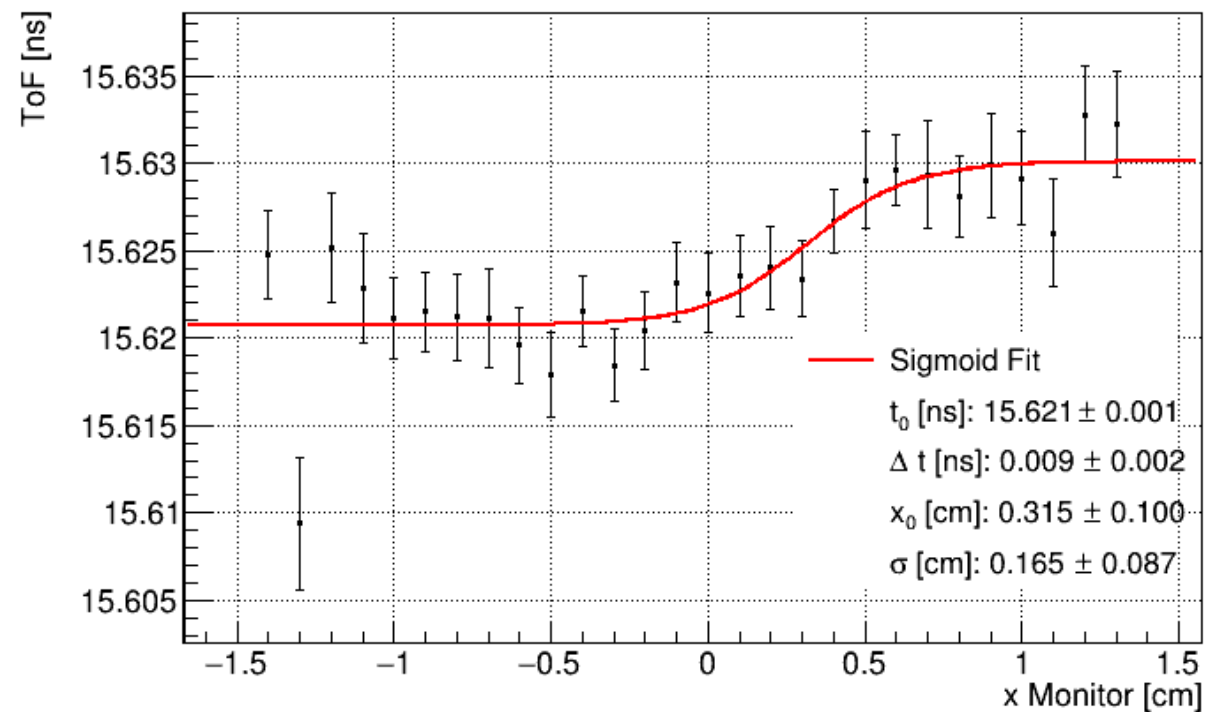


Ricostruzione profili ToF vs posizione sul BM

Time of Flight vs xHit Position [slab: 1 mm]

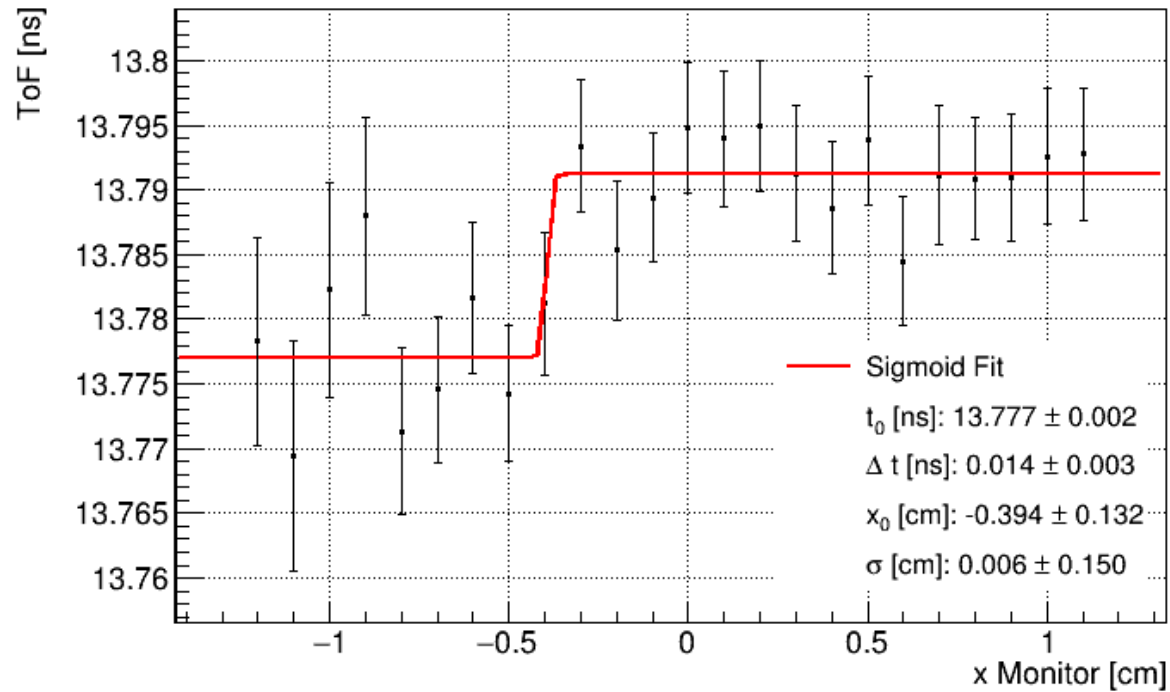


Time of Flight vs xHitW Position [slab: 1 mm]

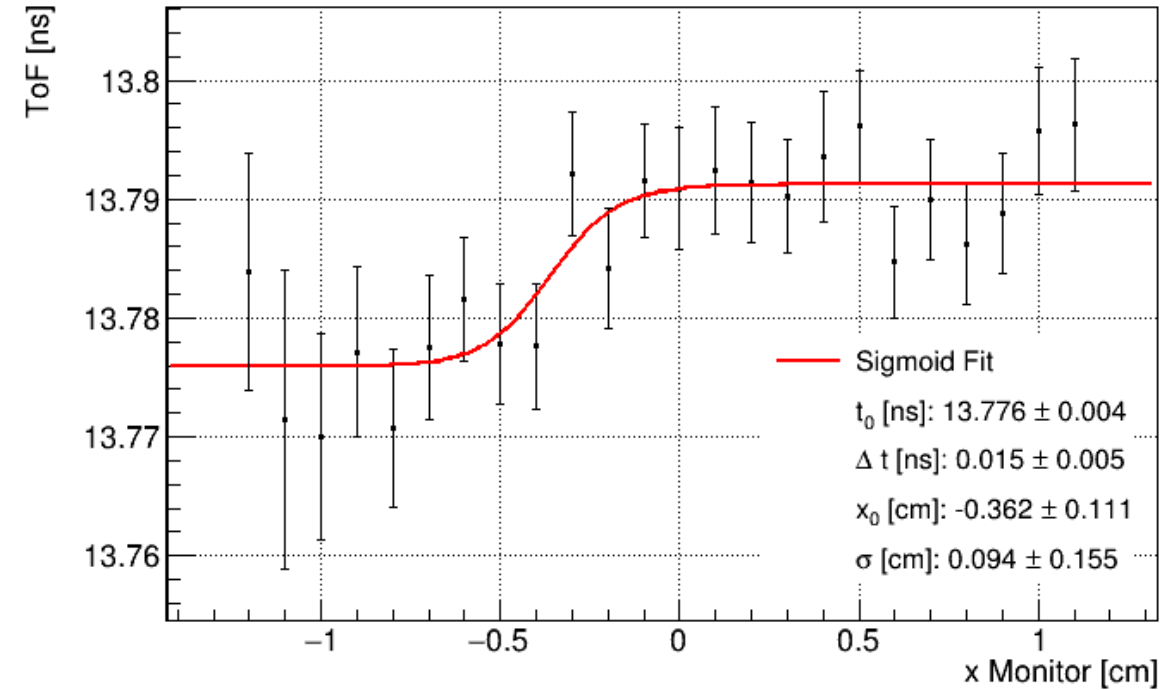


Ricostruzione profili ToF vs posizione sul BM

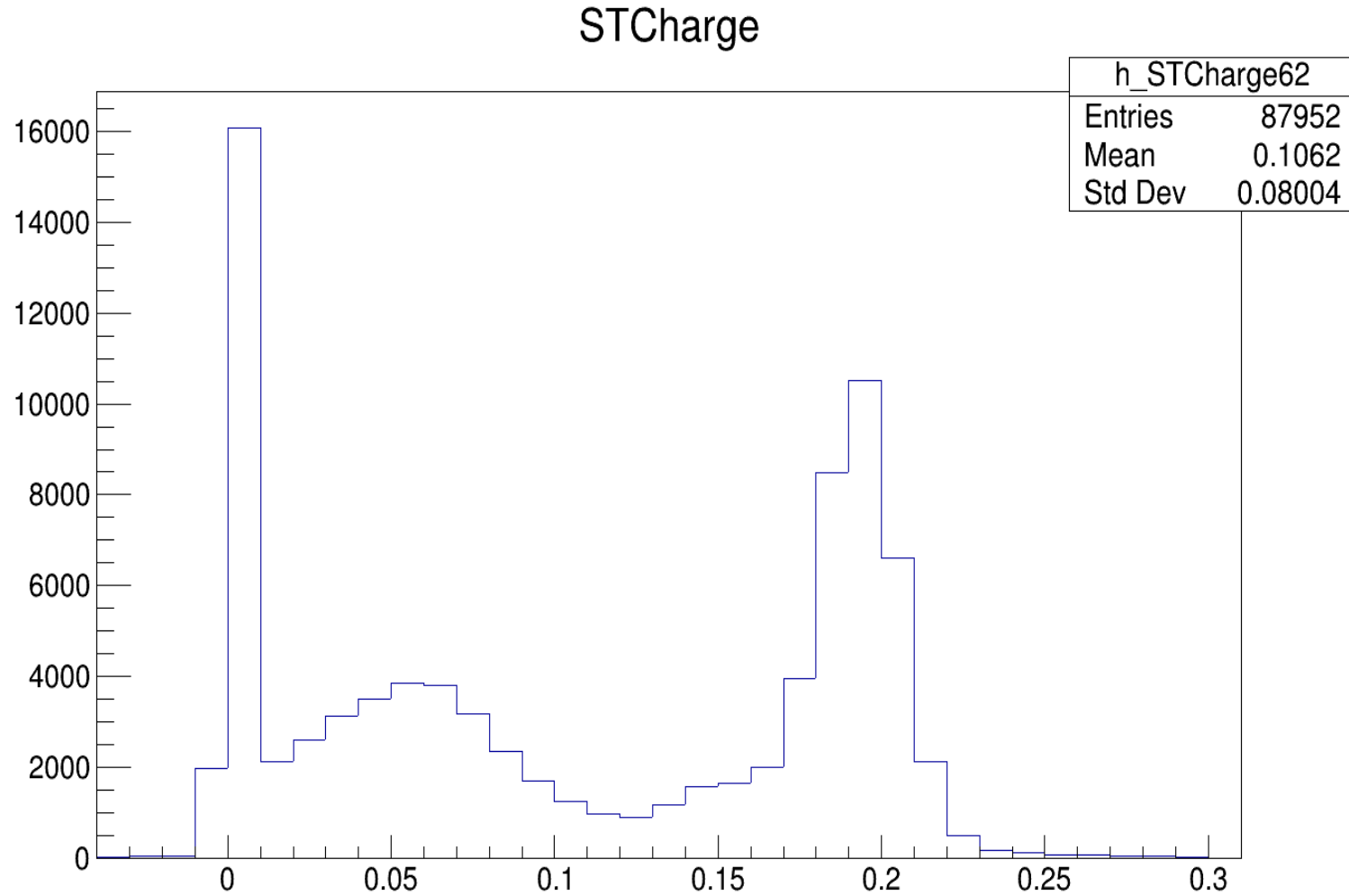
Time of Flight vs xHit Position [slab: 1 mm] Carbonio



Time of Flight vs xHitW Position [slab: 1 mm] Carbonio



Dati con Carbonio



Dati con Carbonio

