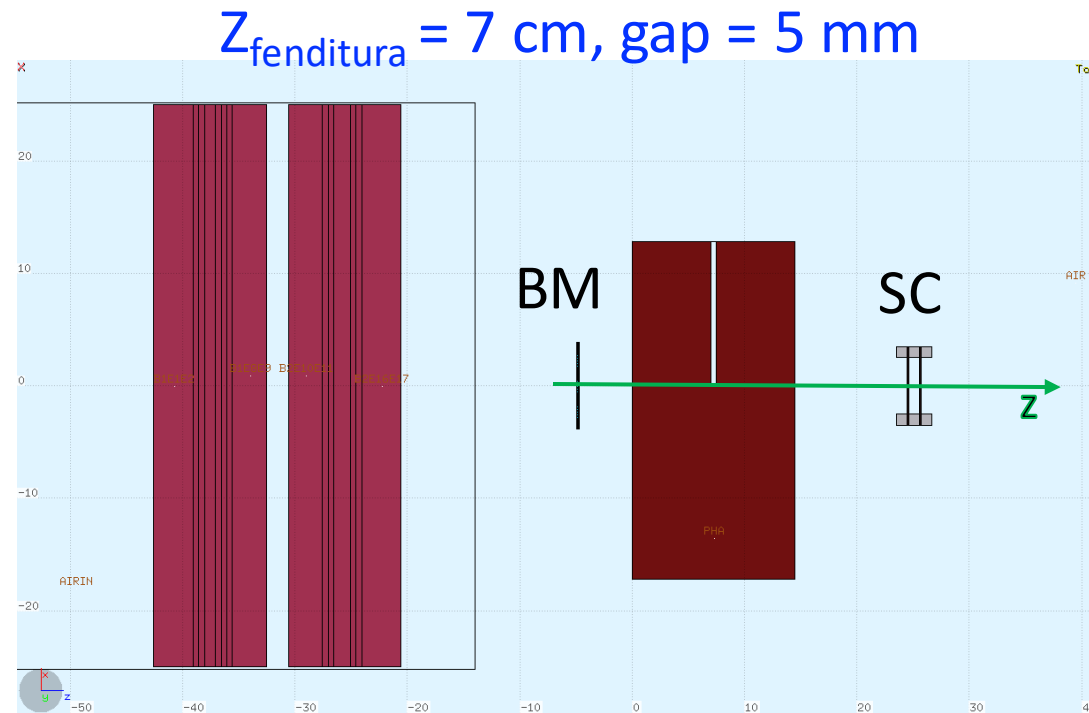


Simulazione con ^4He

Lavoro preliminare

Stesso approccio e geometria della simulazione della presa dati CNAO con protoni

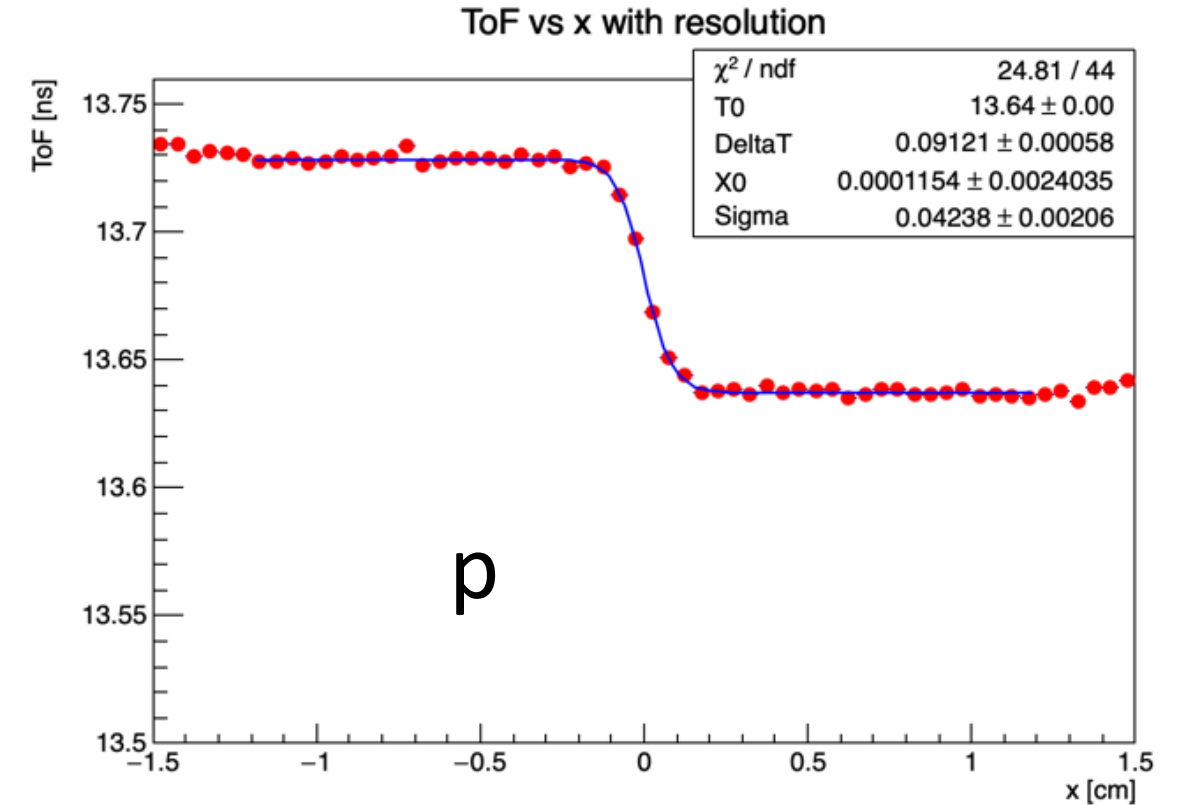
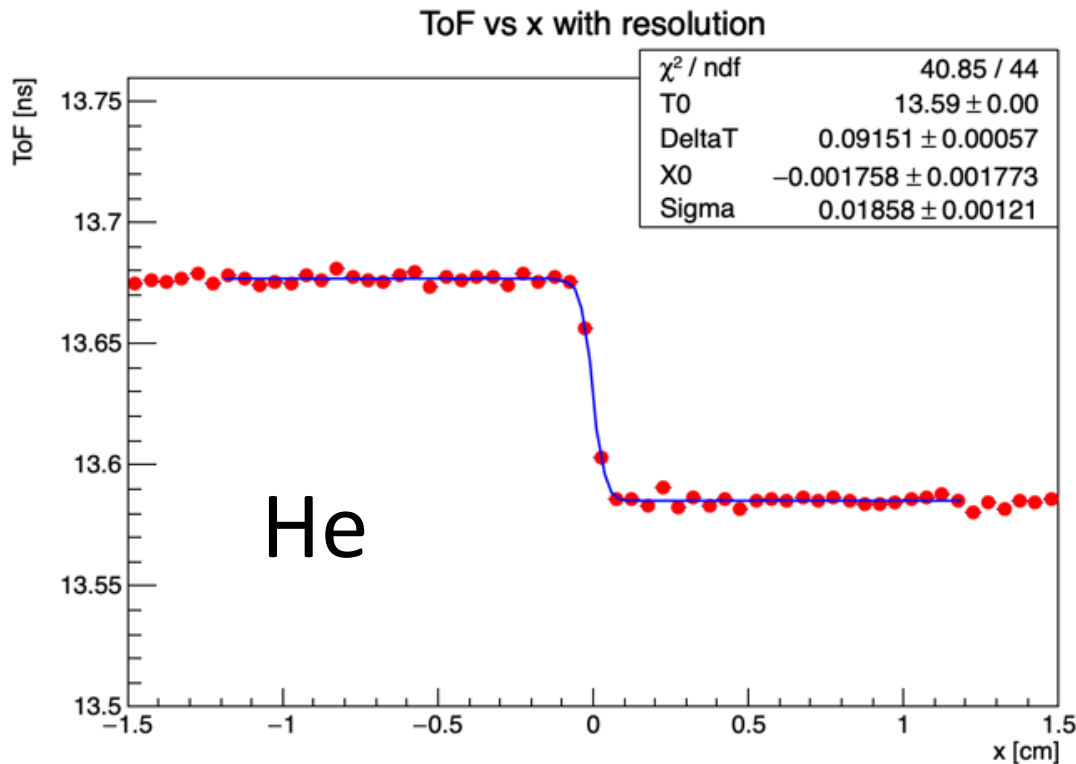


Energia primari: 230 MeV/u

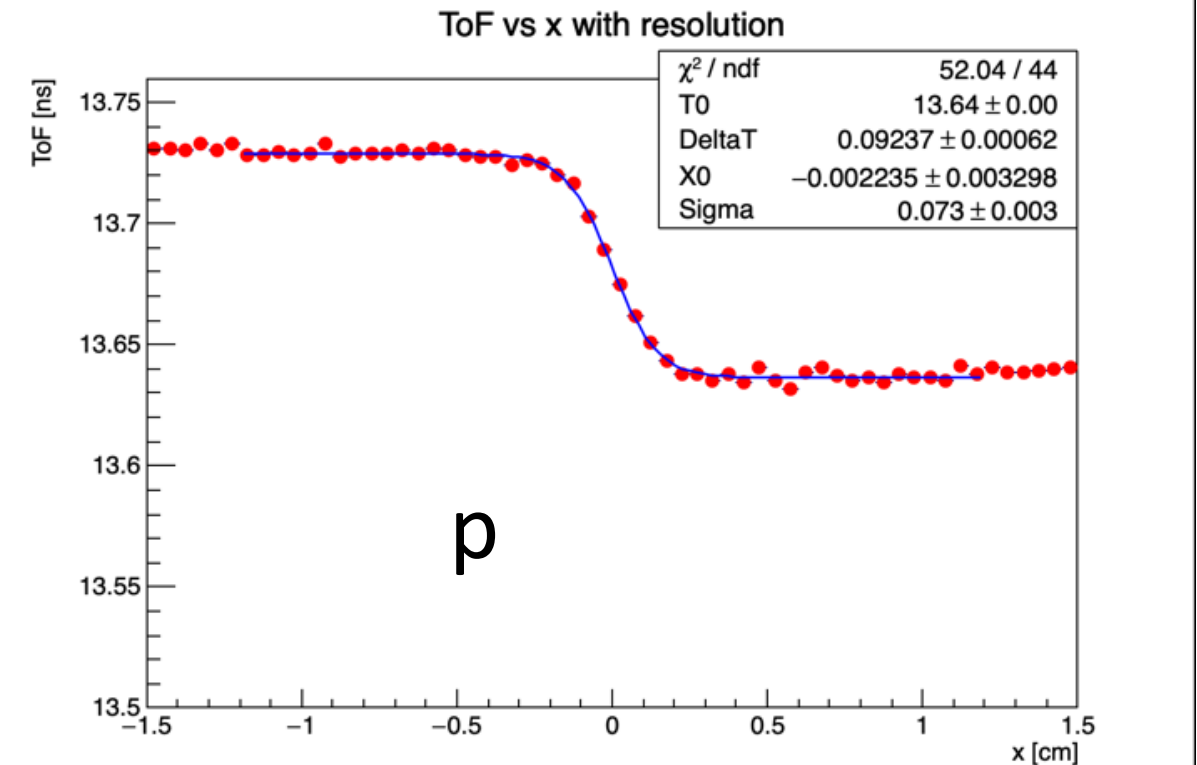
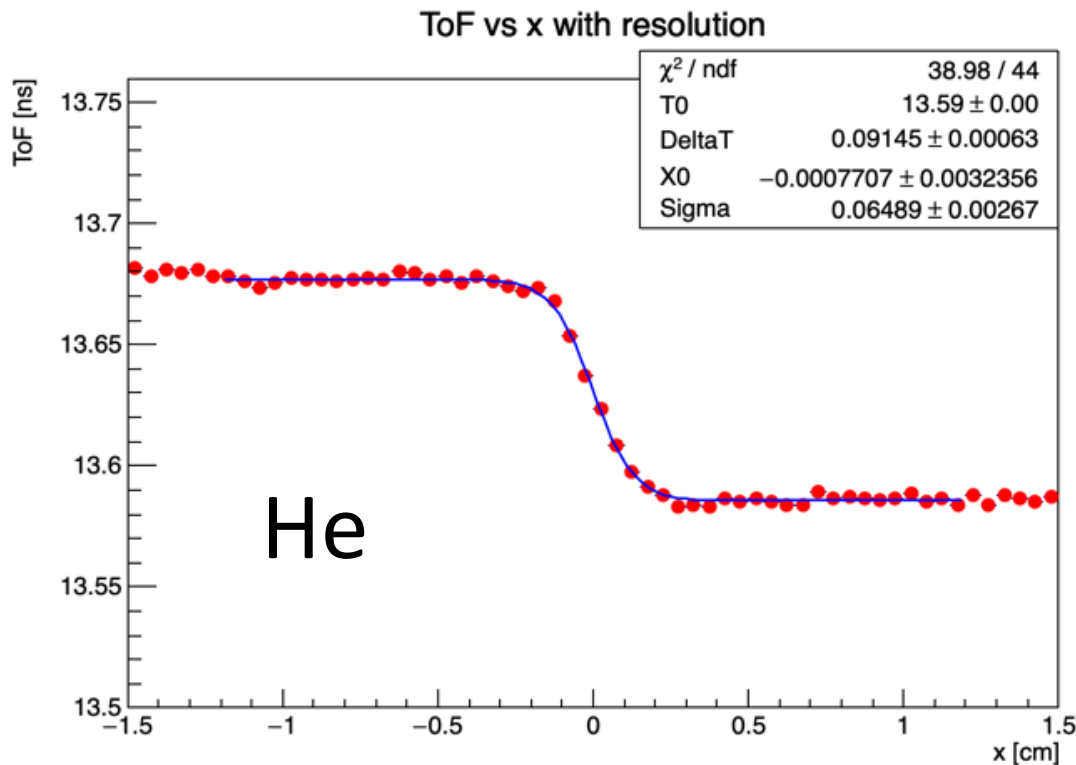
$$f(x) = t_0 + \Delta t \left(\frac{1}{1 + e^{\frac{x-x_0}{\sigma}}} \right)$$

Smearing assunto approssimato come gaussiano
(parametro di smearing = RMS della gaussiana): 0,1,2 mm

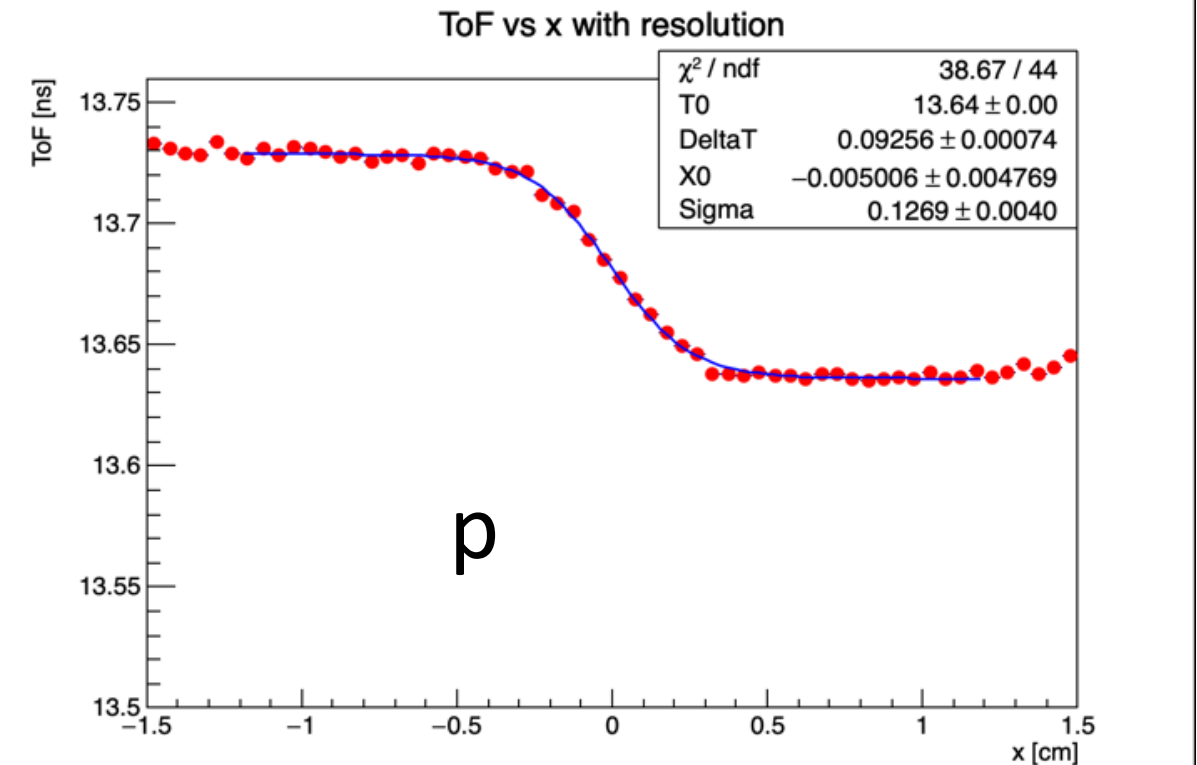
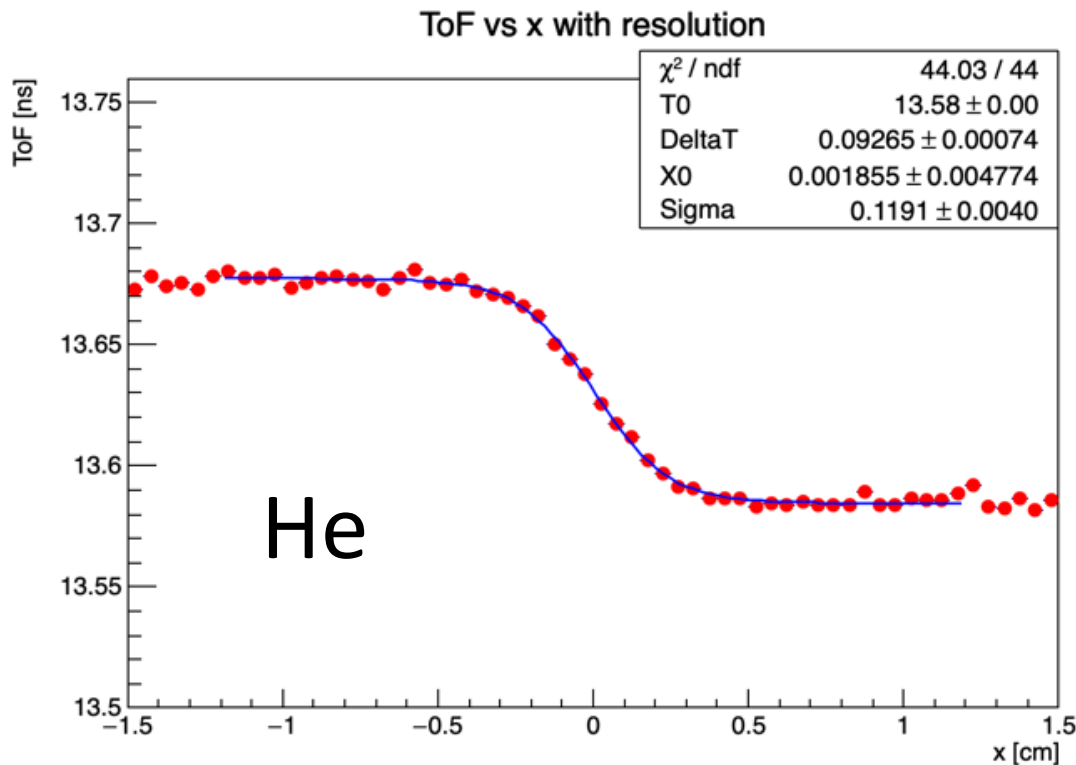
Risultati a 230 MeV/u e confronto con protoni alla stessa energia: 0 smearing



Risultati a 230 MeV/u e confronto con protoni alla stessa energia: 0.1 cm smearing



Risultati a 230 MeV/u e confronto con protoni alla stessa energia: 0.2 cm smearing



Lo smearing sulla ricostruzione spaziale sembra vanificare i vantaggi dell'He