

v.16.15.17  
06/21/23

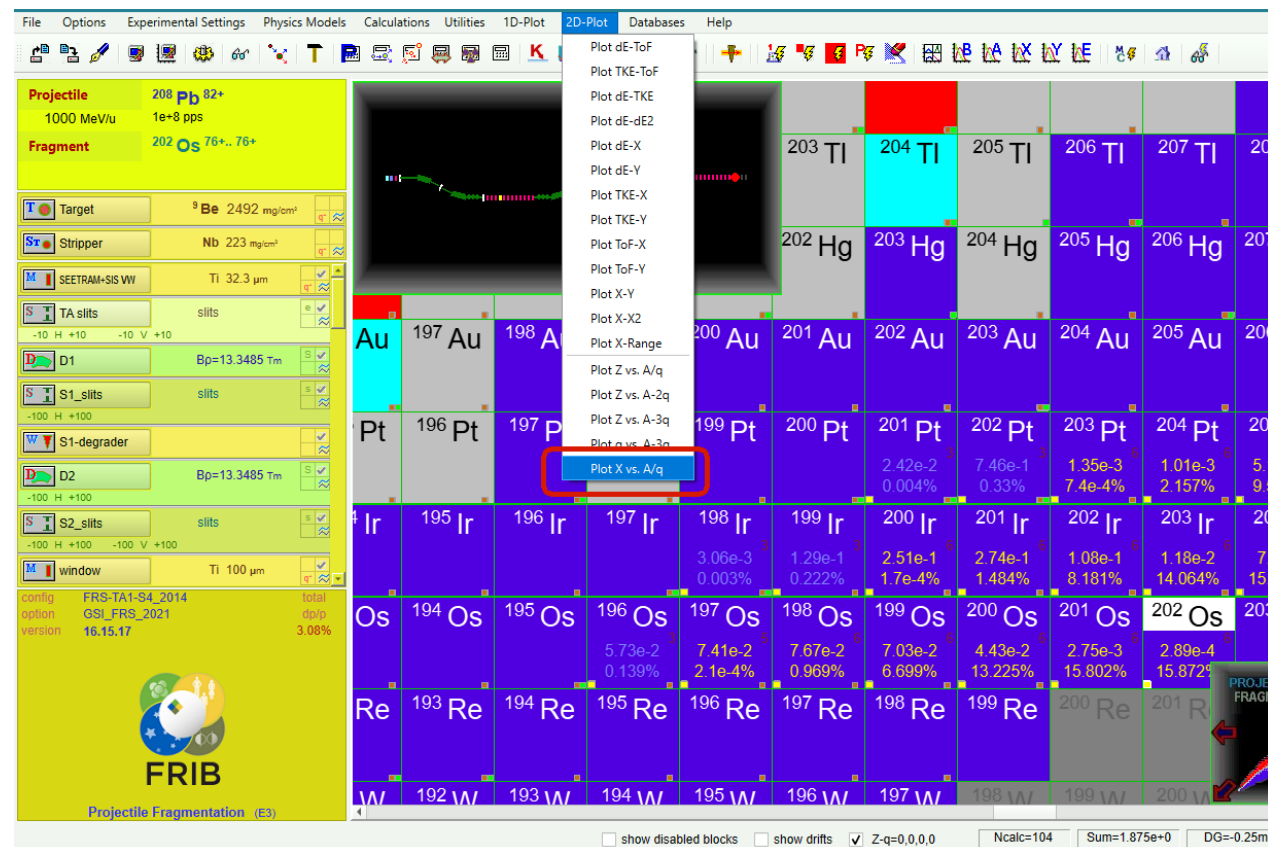
16.15.14 - New Plot2 : X vs. A/q

16.15.15 - Fixed: bug - writing a low intensity value (in pps) to file

16.15.16 - Optimization based on Sasha's profiler analysis

16.15.17 - Fixed: bug - energy straggling in Stripper

Discussions with Z. Podolyak and the provision of relevant files are greatly appreciated.



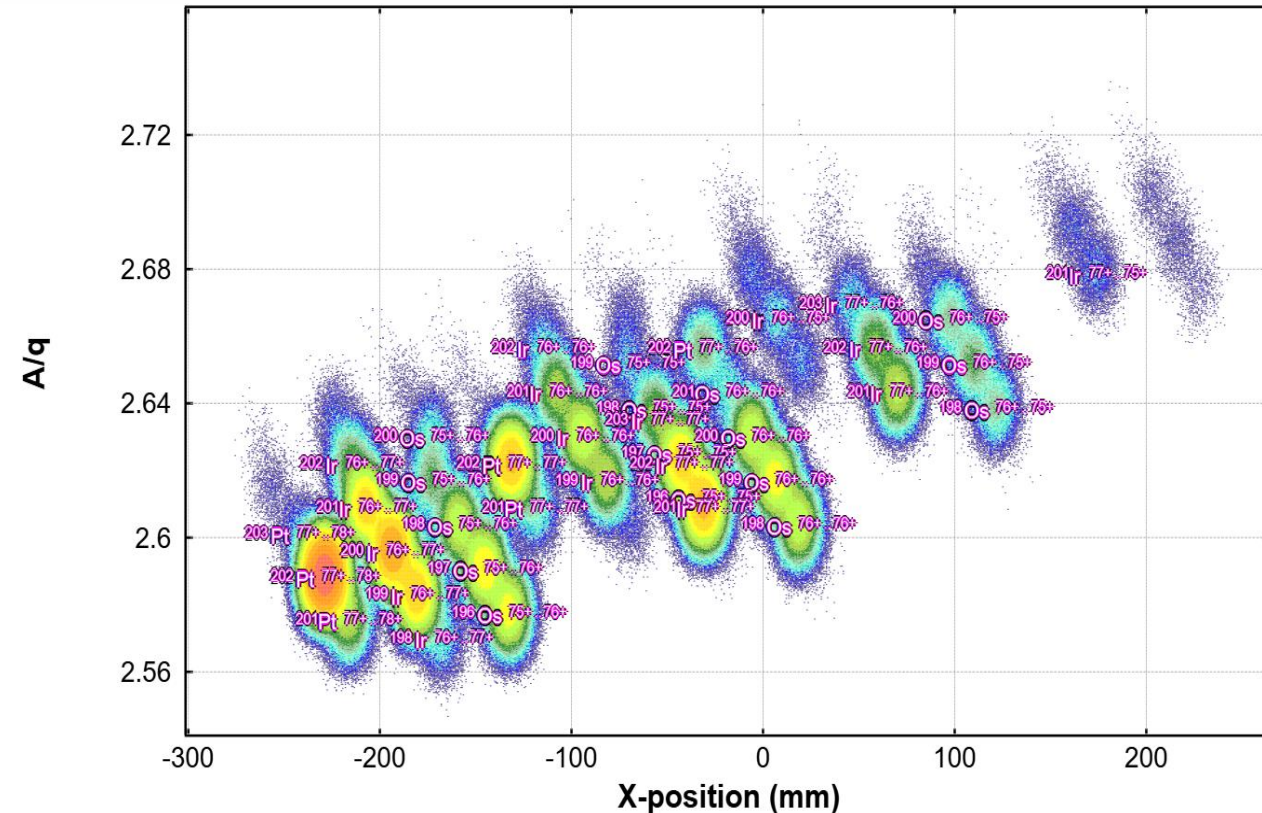
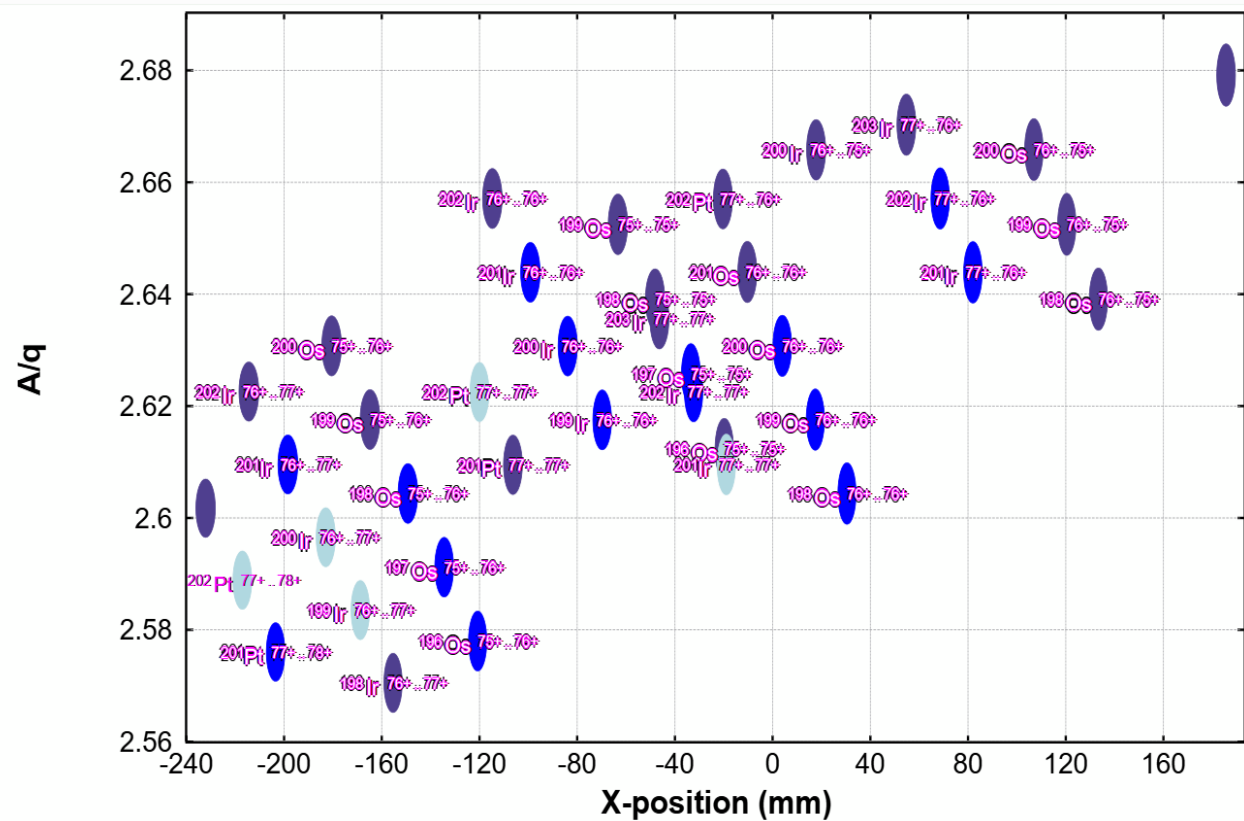
## X vs. A/q

<sup>208</sup>Pb (1000 MeV/u) + Be (2492.2 mg/cm<sup>2</sup>), Nb (223 mg/cm<sup>2</sup>); Settings on <sup>202</sup>Os <sup>76+</sup>..<sup>76+</sup>; Config: m|D<sup>+</sup>..D<sup>+</sup>.....D<sup>+</sup>.....  
dp/p=3.08%; Wedge(s): 0, Al (3508 mg/cm<sup>2</sup>), Al (3700 mg/cm<sup>2</sup>); Bp (Tm): 13.3485, 13.3485, 9.7927, 9.7927  
X-detector: Scint41 \*\* constructed from ToF and dE1 measurements

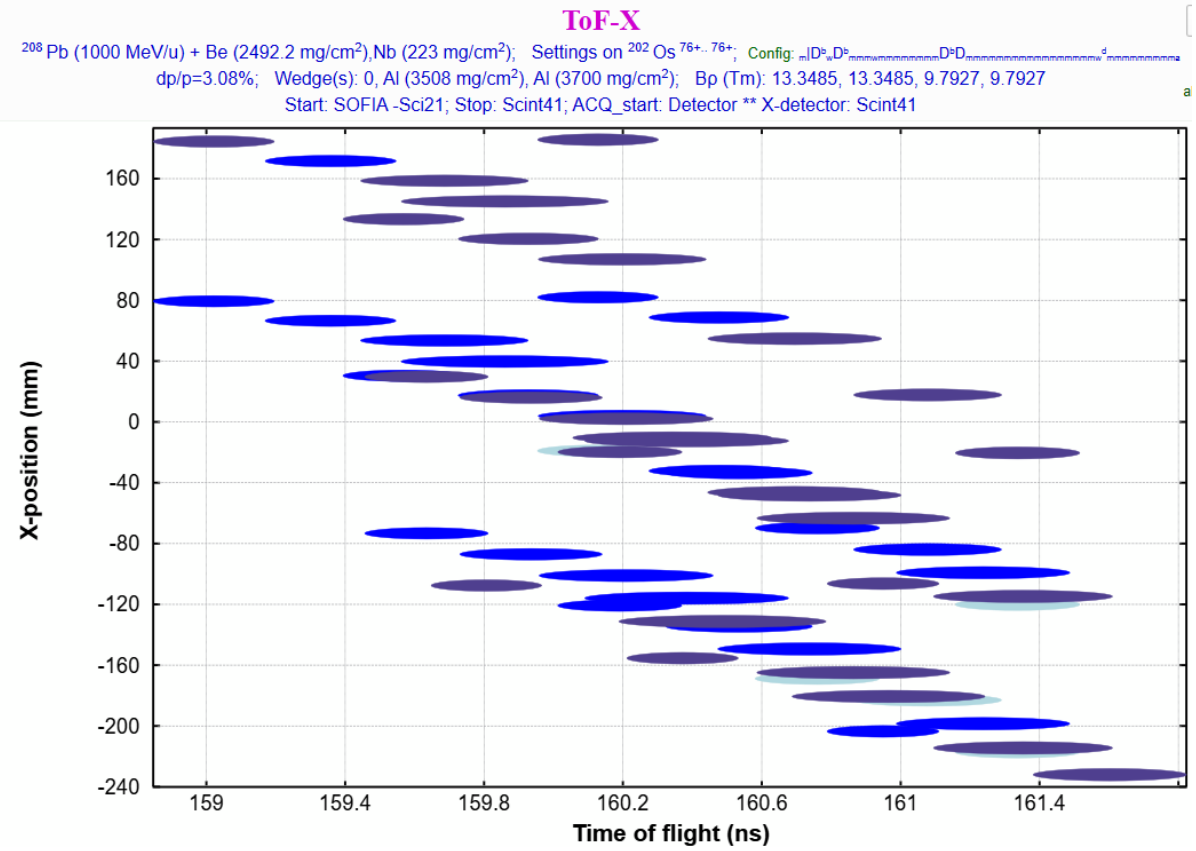
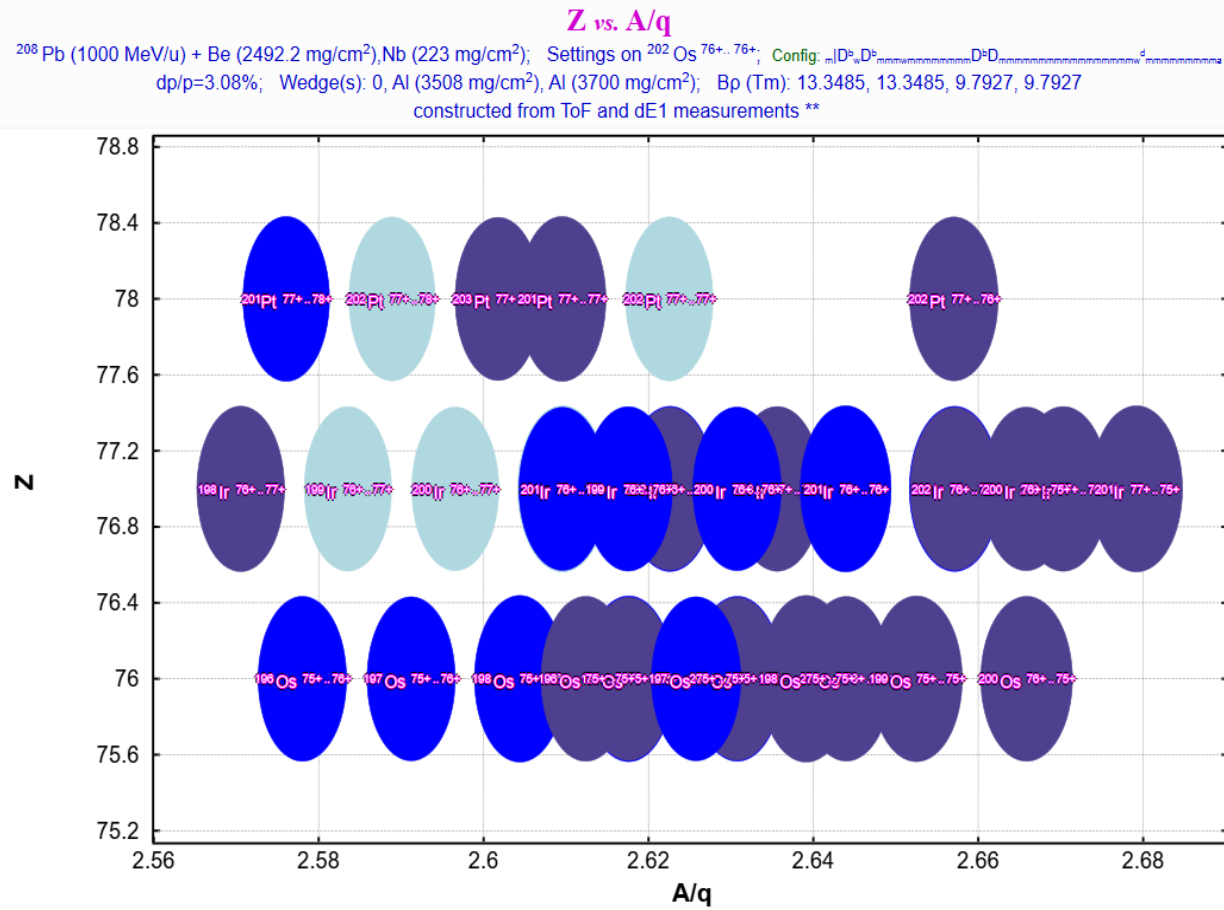
It's PSEUDO Monte Carlo!

## X vs. A/q

<sup>208</sup>Pb (1000 MeV/u) + Be (2492.2 mg/cm<sup>2</sup>), Nb (223 mg/cm<sup>2</sup>); Settings on <sup>202</sup>Os <sup>76+</sup>..<sup>76+</sup>; Config: m|D<sup>+</sup>..D<sup>+</sup>.....D<sup>+</sup>.....  
dp/p=3.08%; Wedge(s): 0, Al (3508 mg/cm<sup>2</sup>), Al (3700 mg/cm<sup>2</sup>); Bp (Tm): 13.3485, 13.3485, 9.7927, 9.7927  
X-detector: Scint41 \*\* constructed from ToF and dE1 measurements

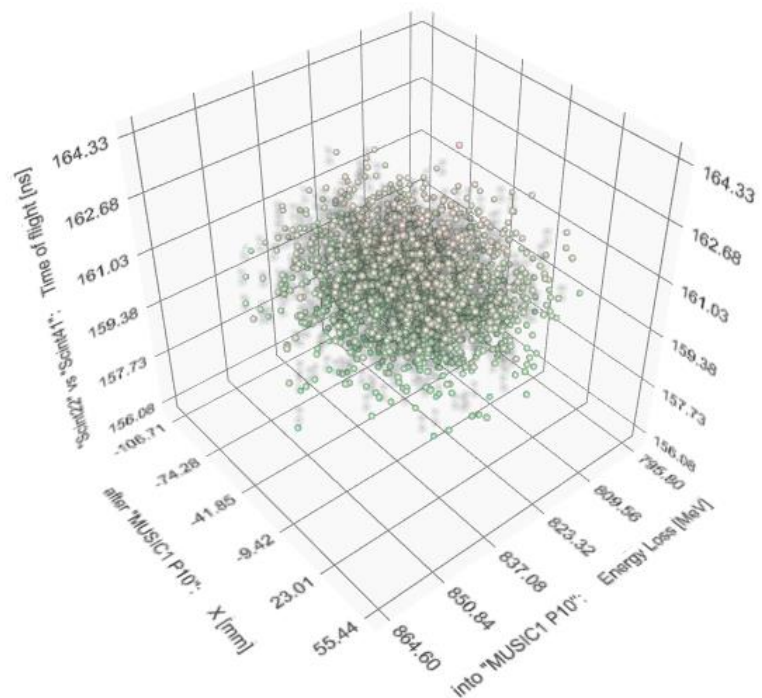


# Ellipse Z vs. A/q and ToF-X plots

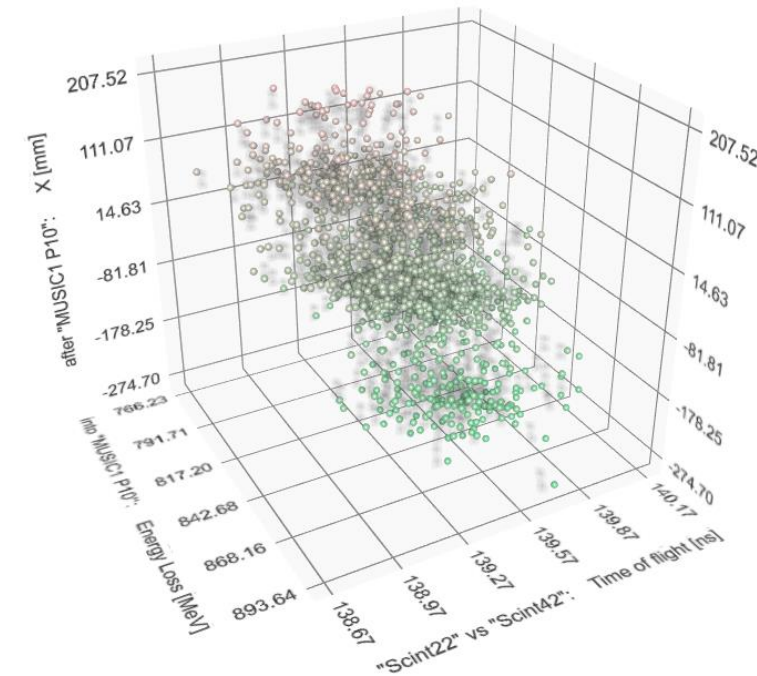
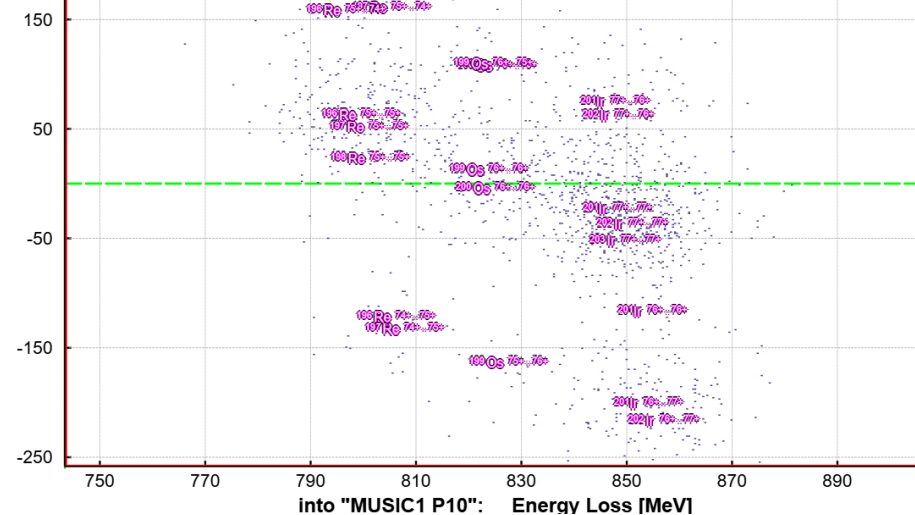


# Monte Carlo

$^{202}\text{Os}^{76+}$



after "MUSIC1 P10": X [mm]



Isotope Group : Monte Carlo Yield Plot  
 $^{208}\text{Pb}$  (1000 MeV/u) + Be (2492.2 mg/cm<sup>2</sup>), Nb (223 mg/cm<sup>2</sup>), Transmitted  $^{202}\text{Os}$  (ProjFrag), Optics Order: 1  
 dp/p=3.08%; Wedge(s): 0, Al (3508 mg/cm<sup>2</sup>), Al (3700 mg/cm<sup>2</sup>), Bp (Tm): 13.3485, 13.3485, 9.7927, 9.7927  
 AngAccept: ON; Bounds: Off; "MUSIC1 P10" - last block for MC calc; no gates; Config: \_ID\_\*