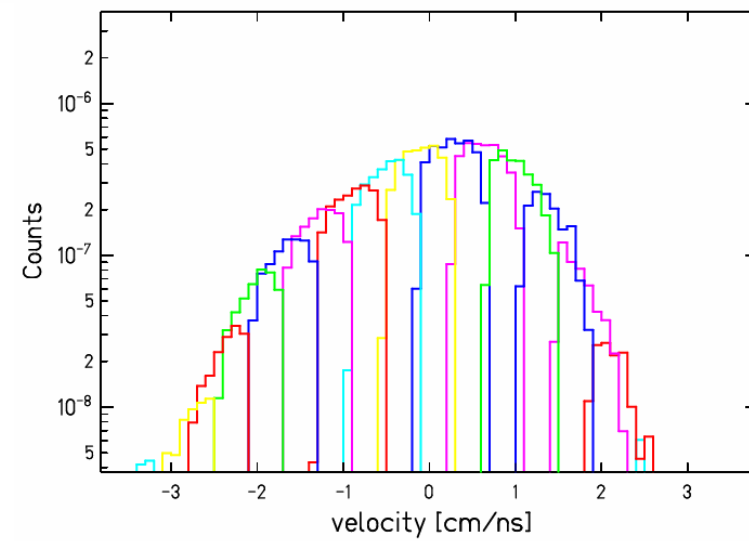
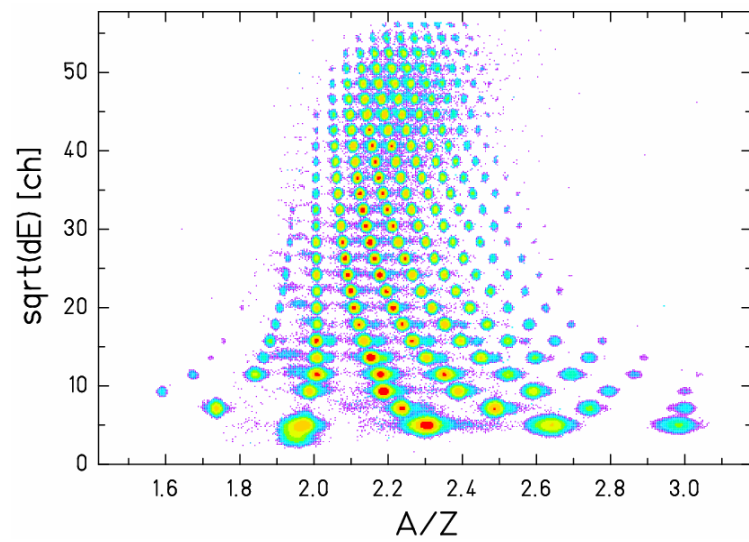
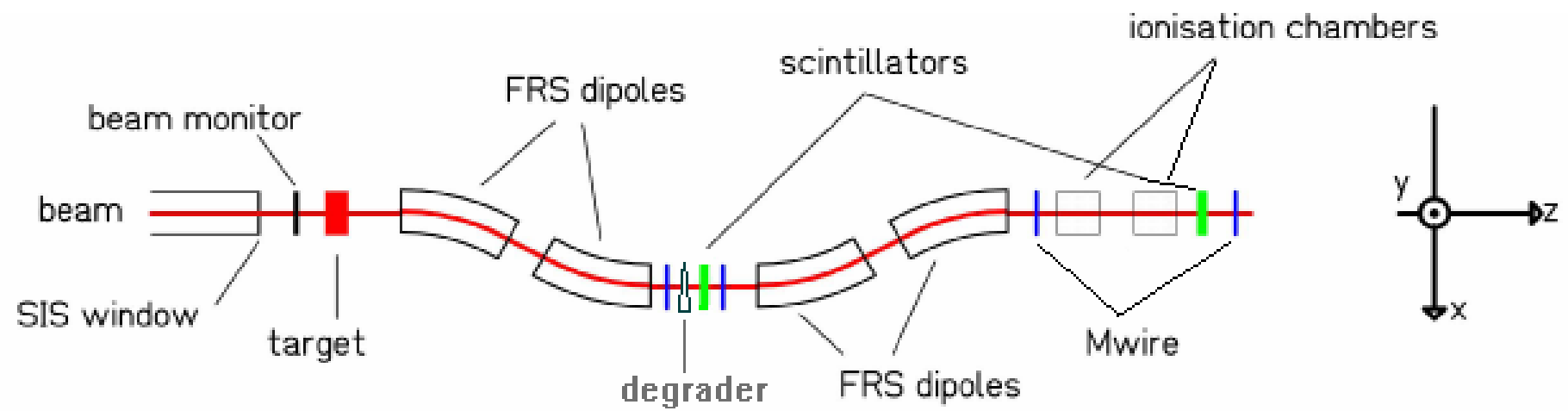


**Systematic investigation of the isotopic distributions
measured in the fragmentation
of ^{124}Xe and ^{136}Xe projectiles**

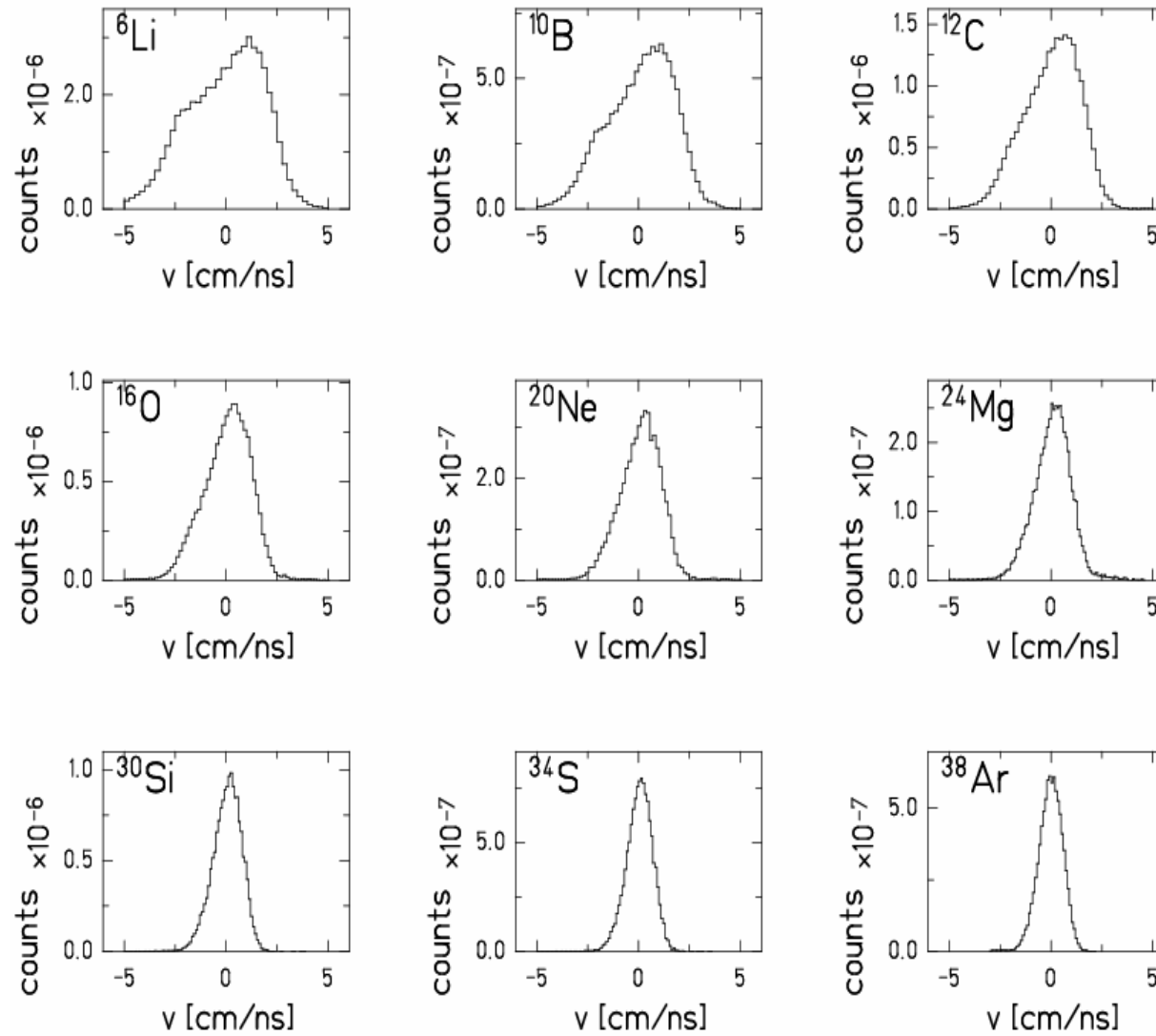
Daniela Henzlova

Experiment

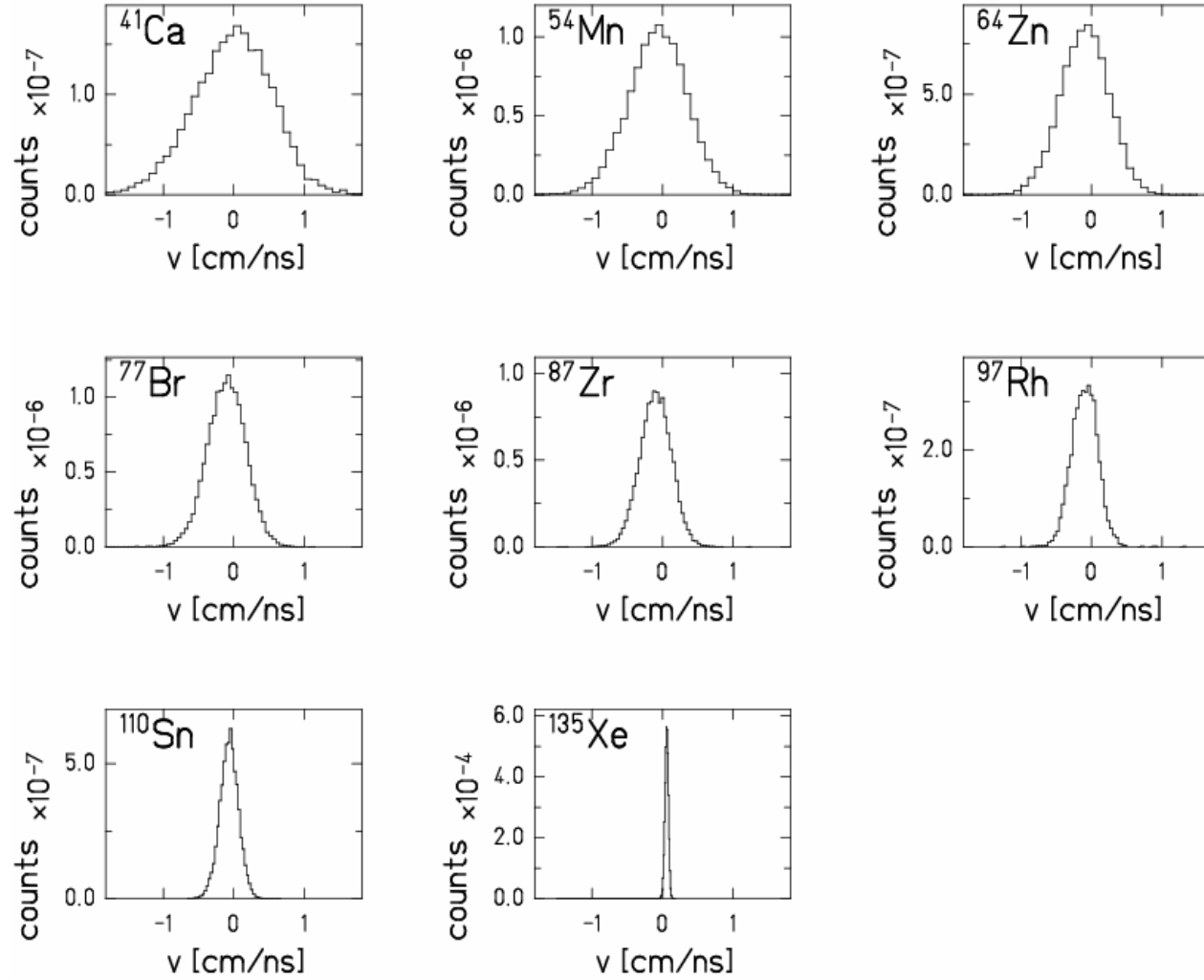


^{11}Li

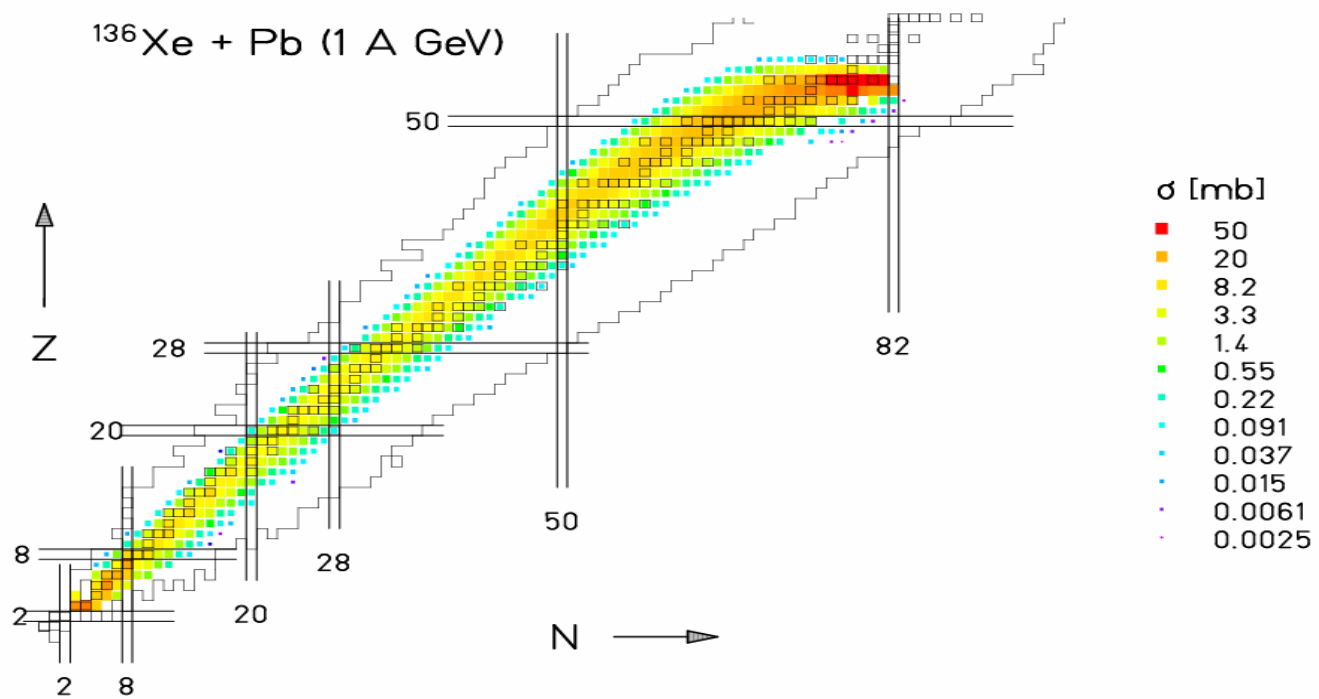
Results

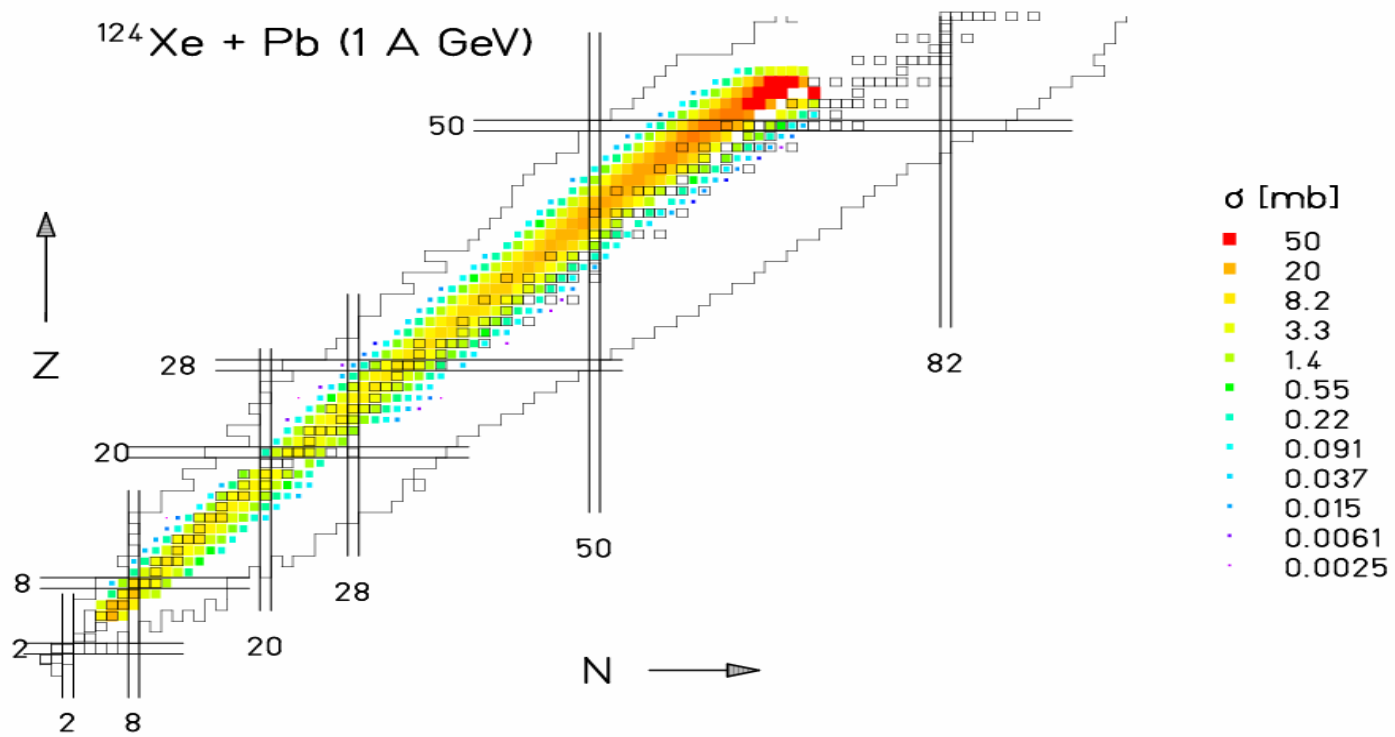


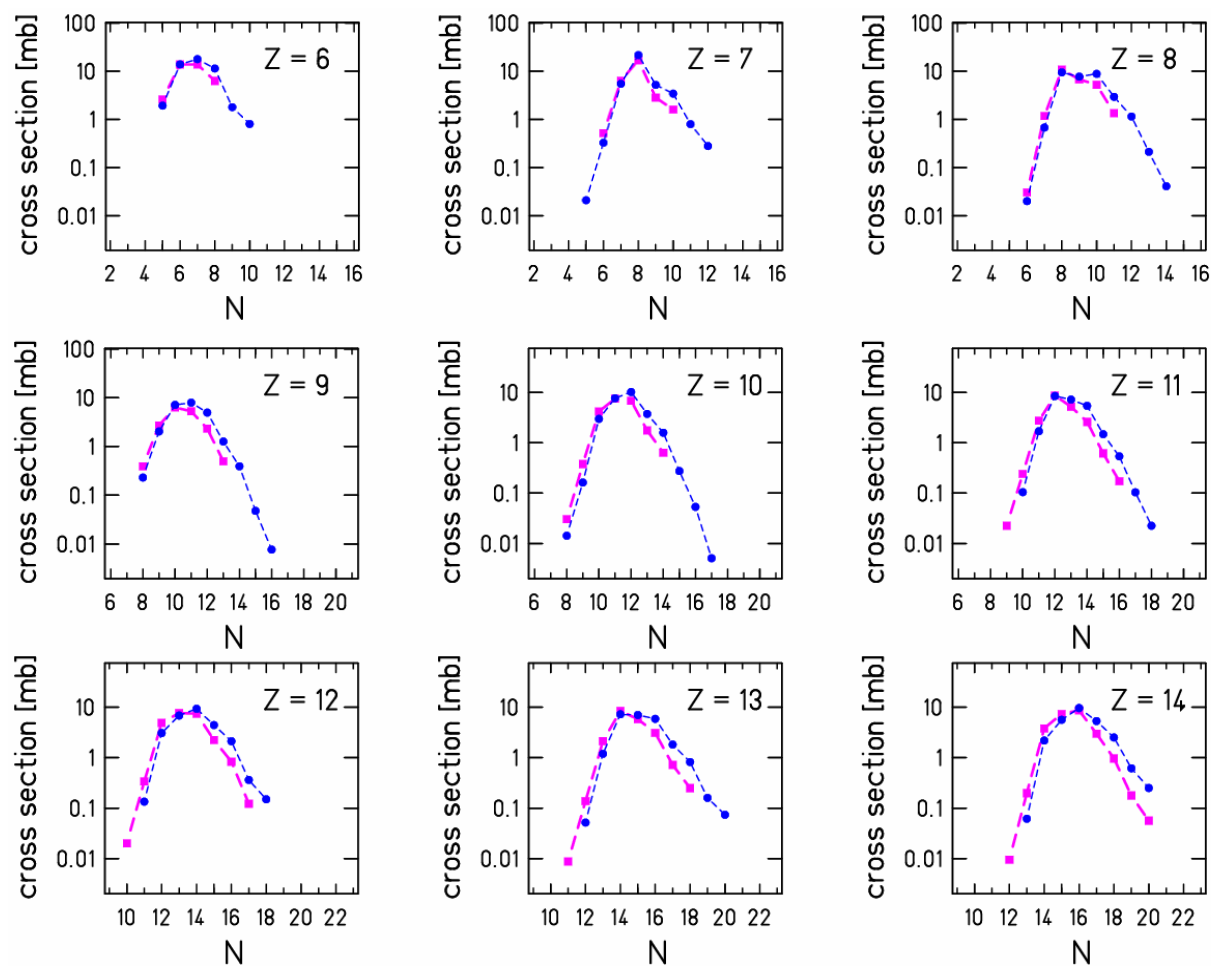
Velocity distributions (${}^{136}\text{Xe}$, 1 A GeV + Pb)



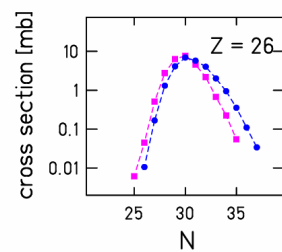
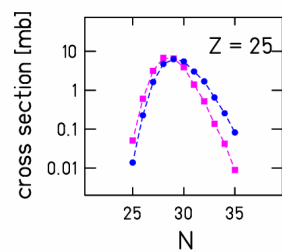
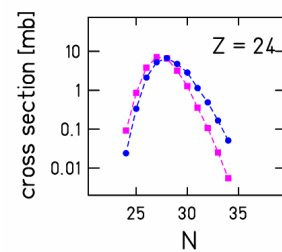
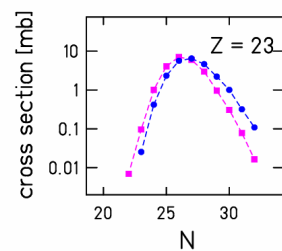
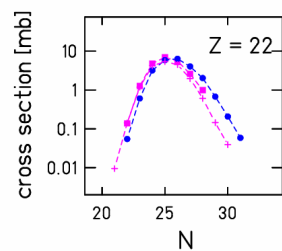
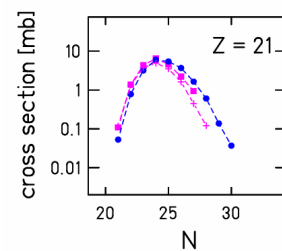
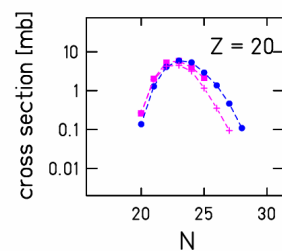
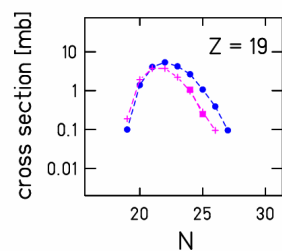
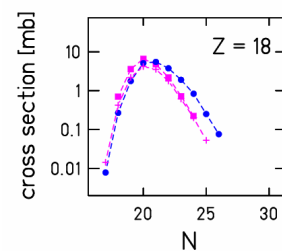
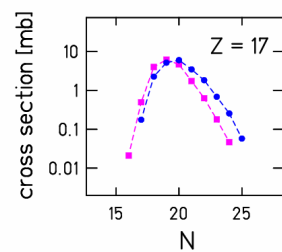
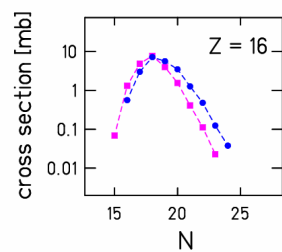
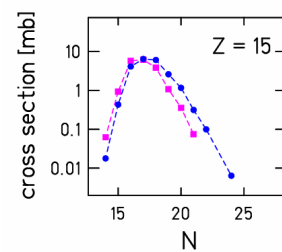
Velocity distributions (^{136}Xe , 1 A GeV + Pb)

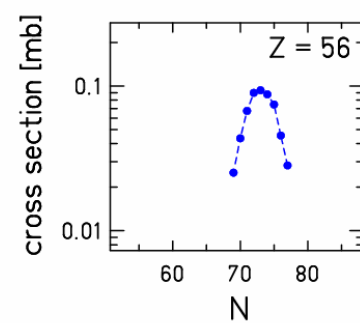
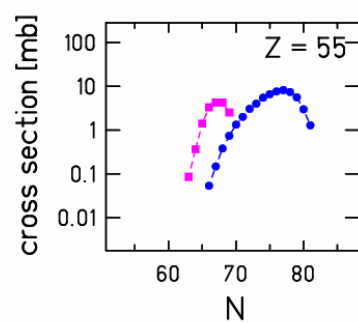
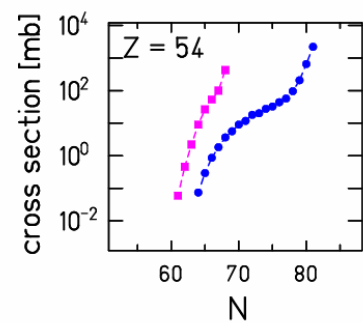
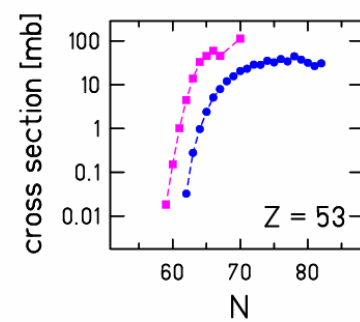
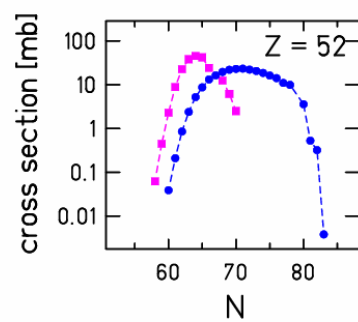
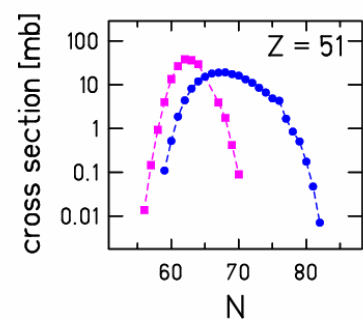


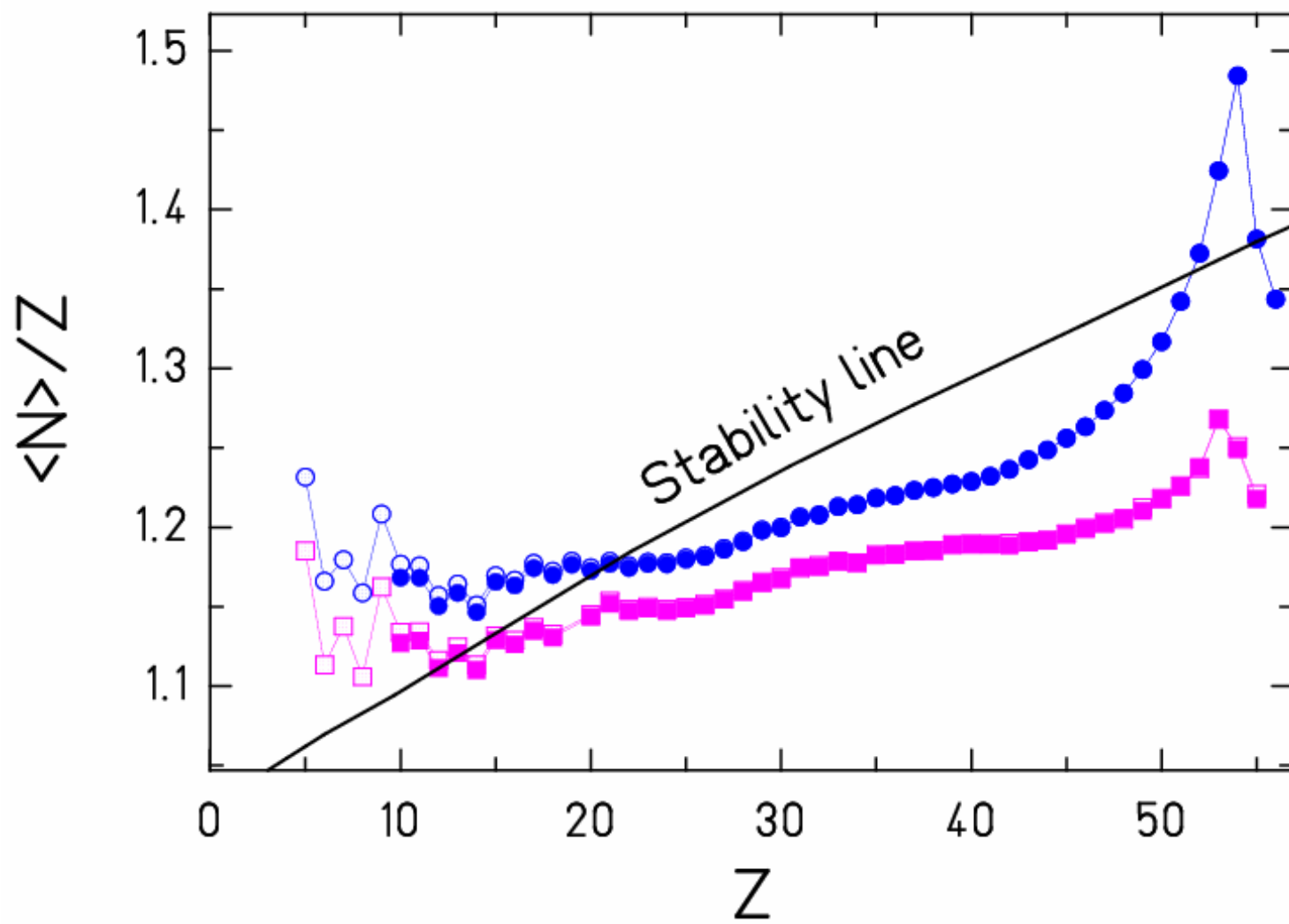




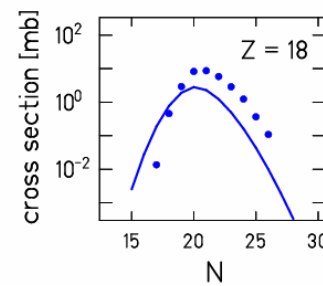
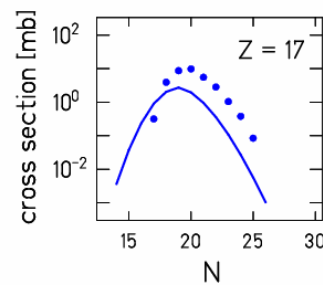
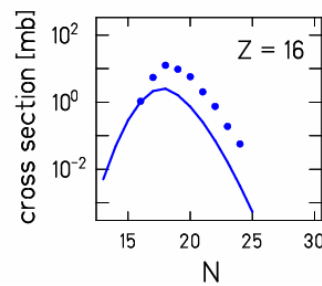
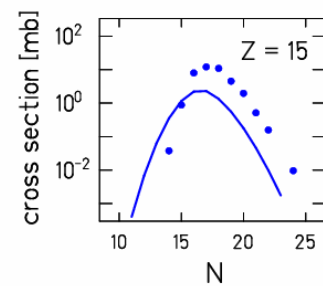
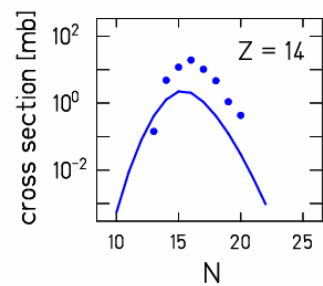
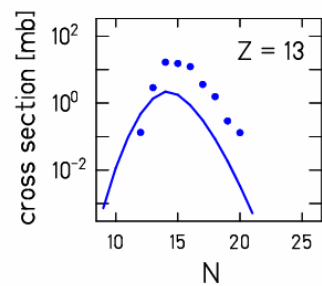
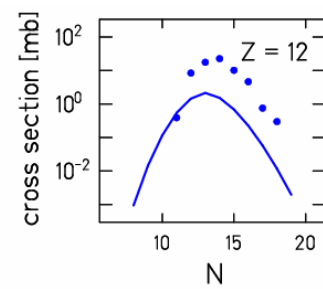
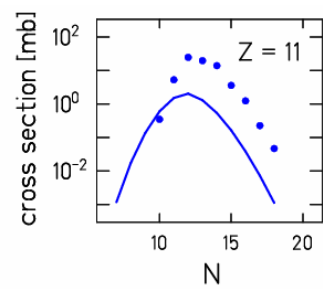
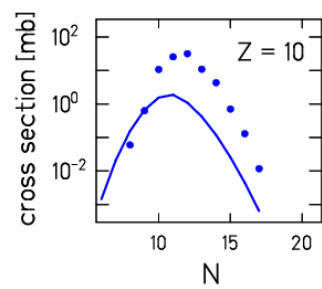
Production cross sections ($^{136,124}\text{Xe} + \text{Pb}$)

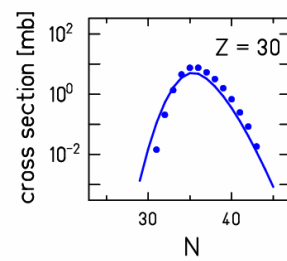
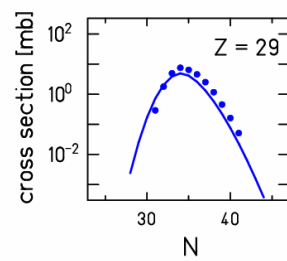
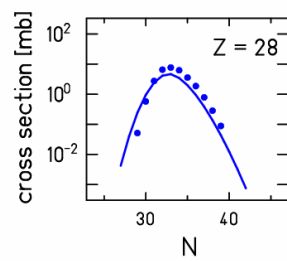
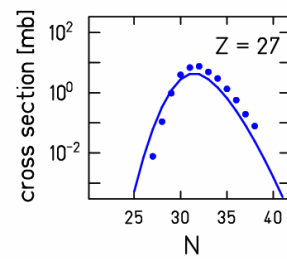
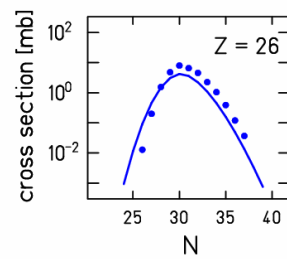
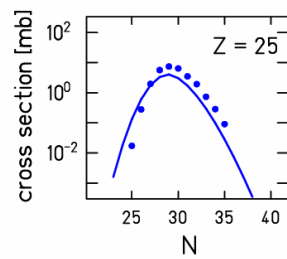
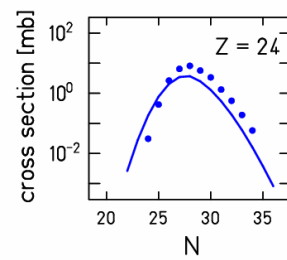
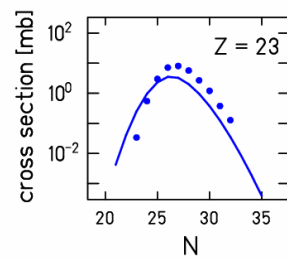
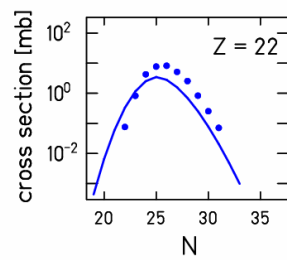
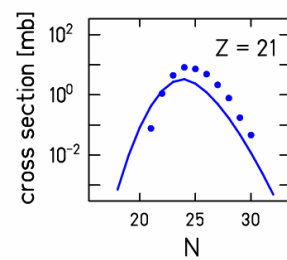
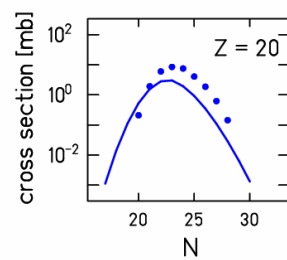
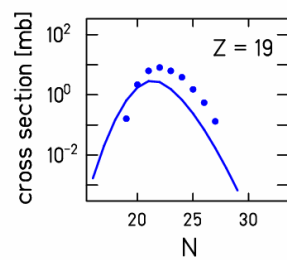


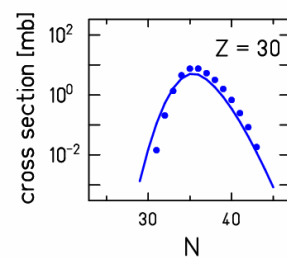
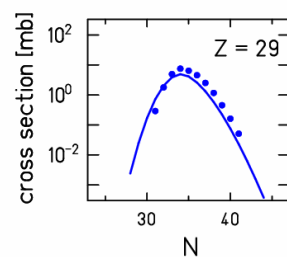
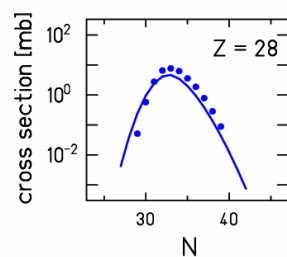
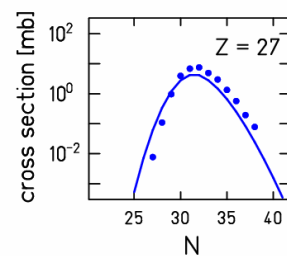
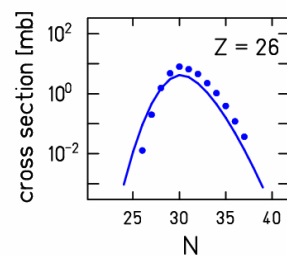
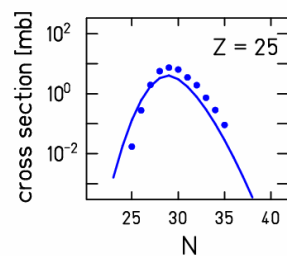
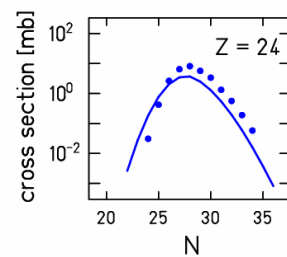
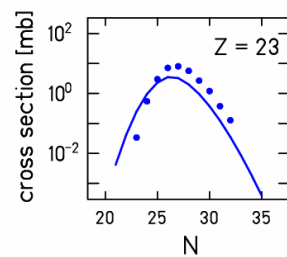
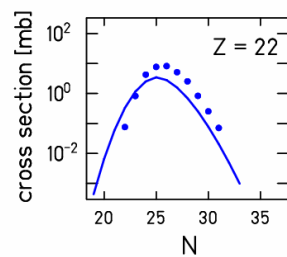
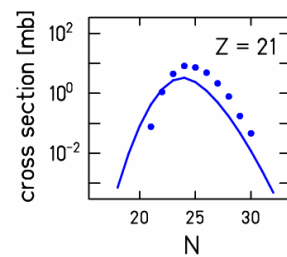
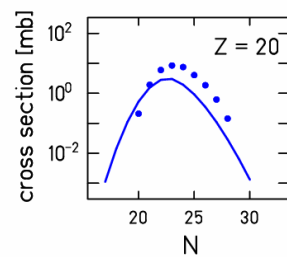
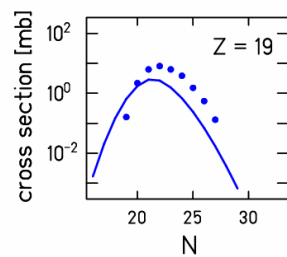


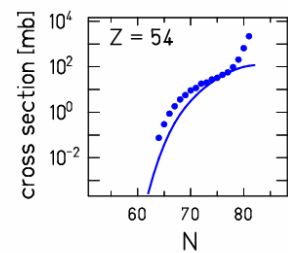
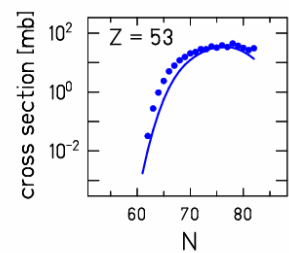
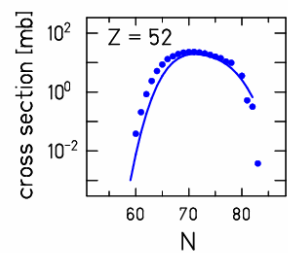
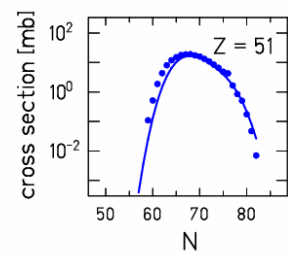
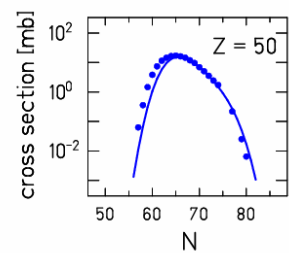
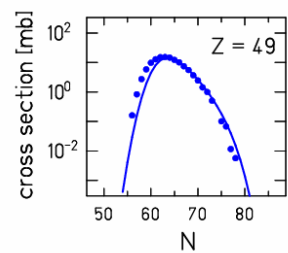
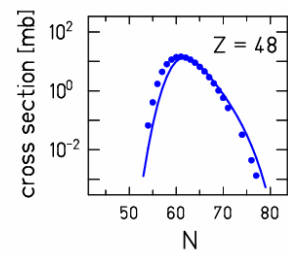
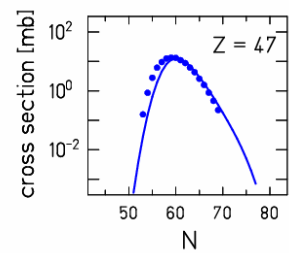
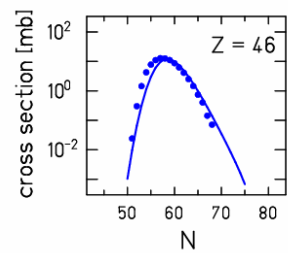
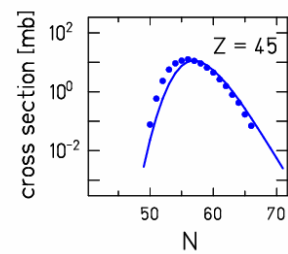
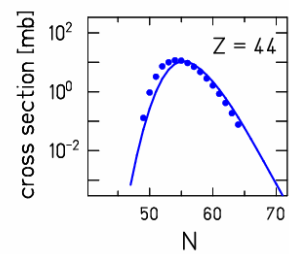
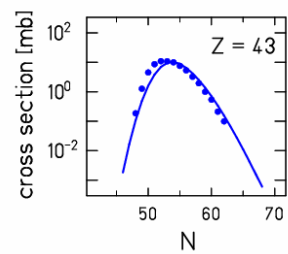


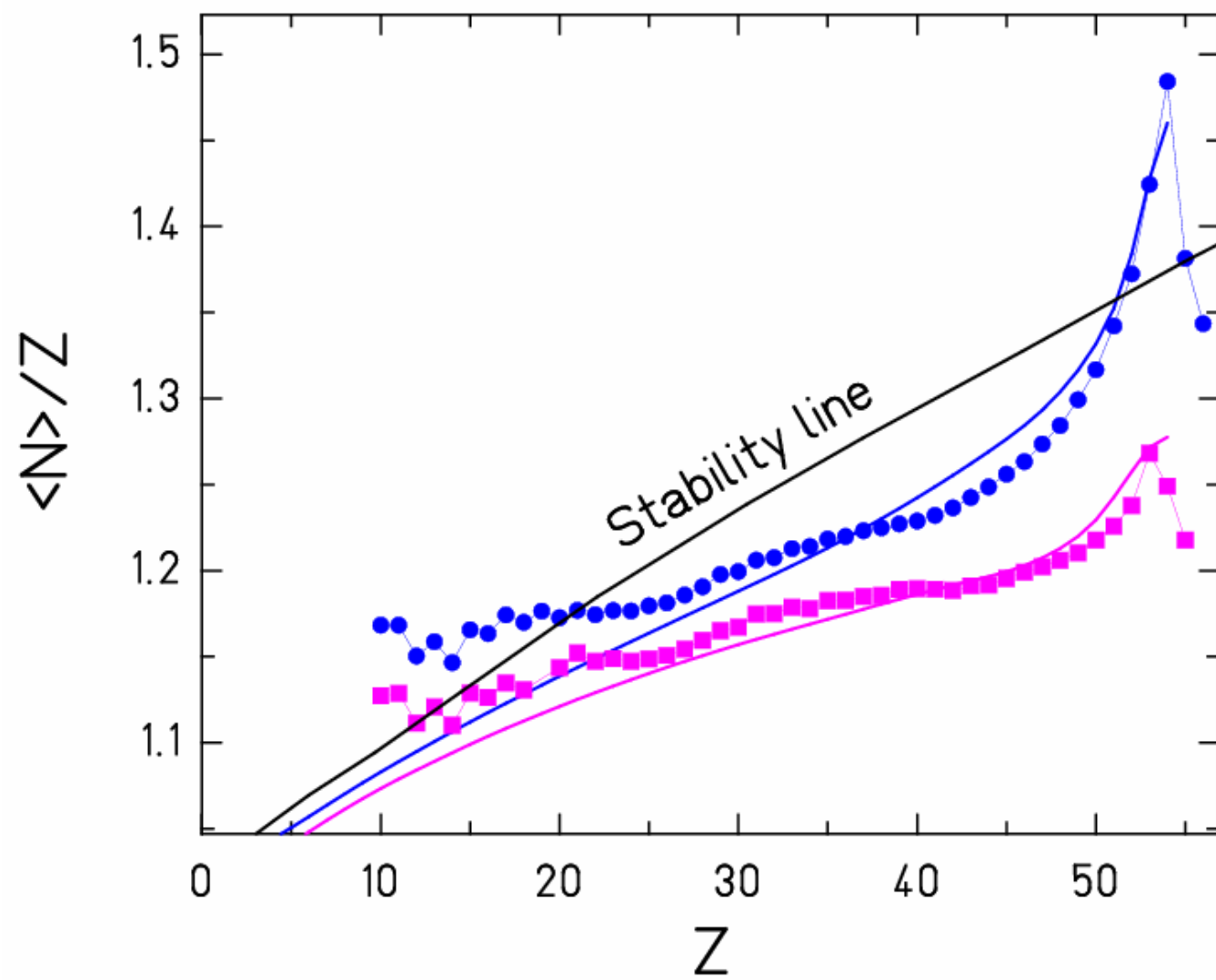
Comparison with EPAX





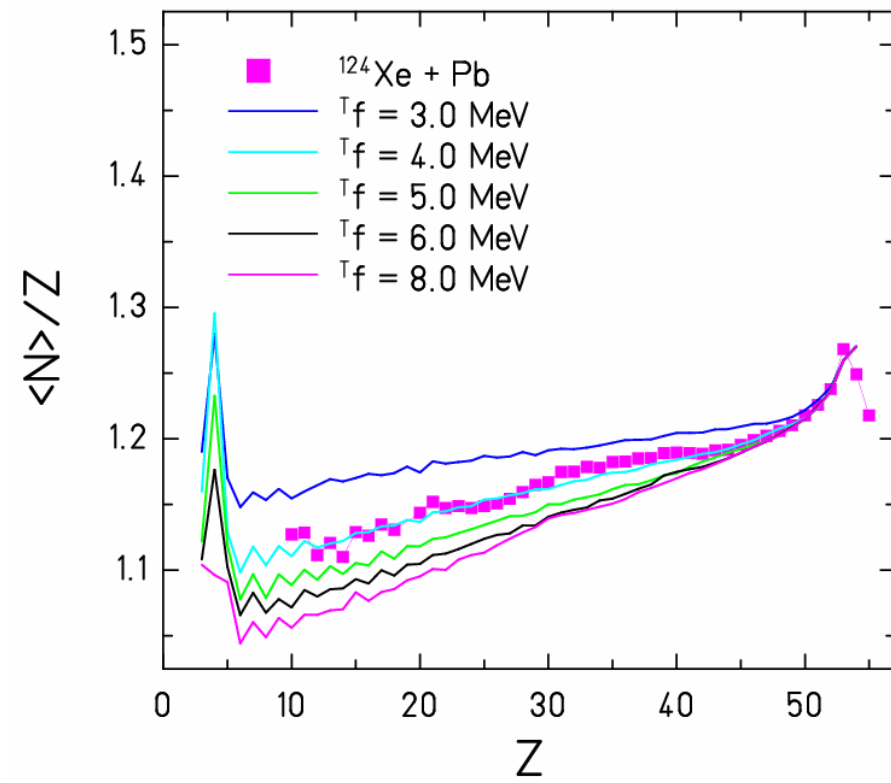
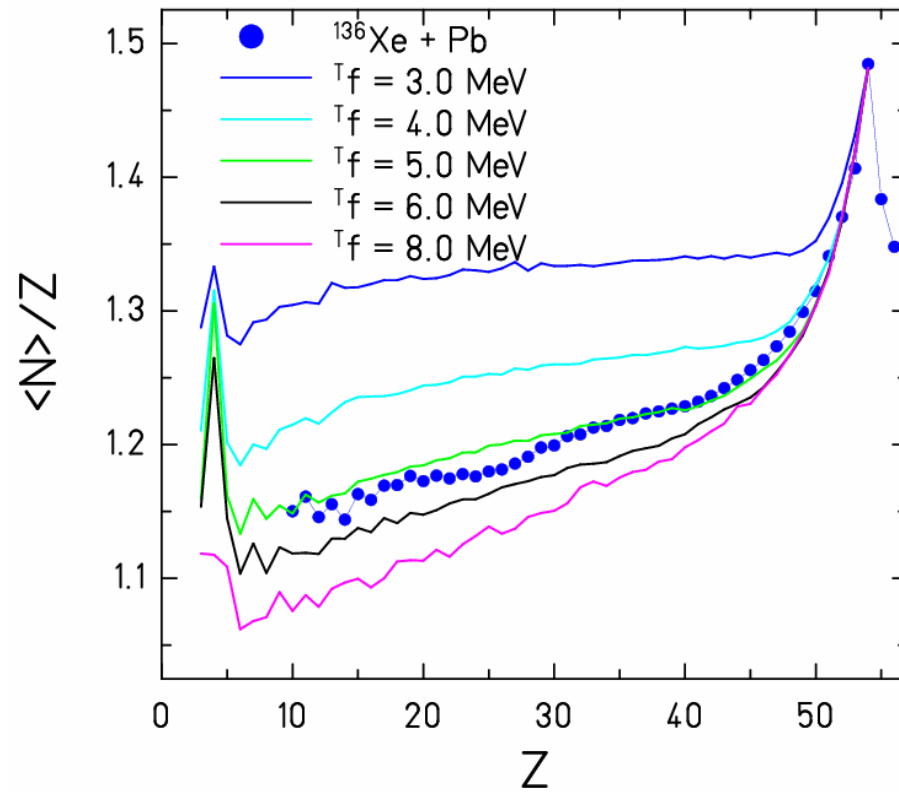




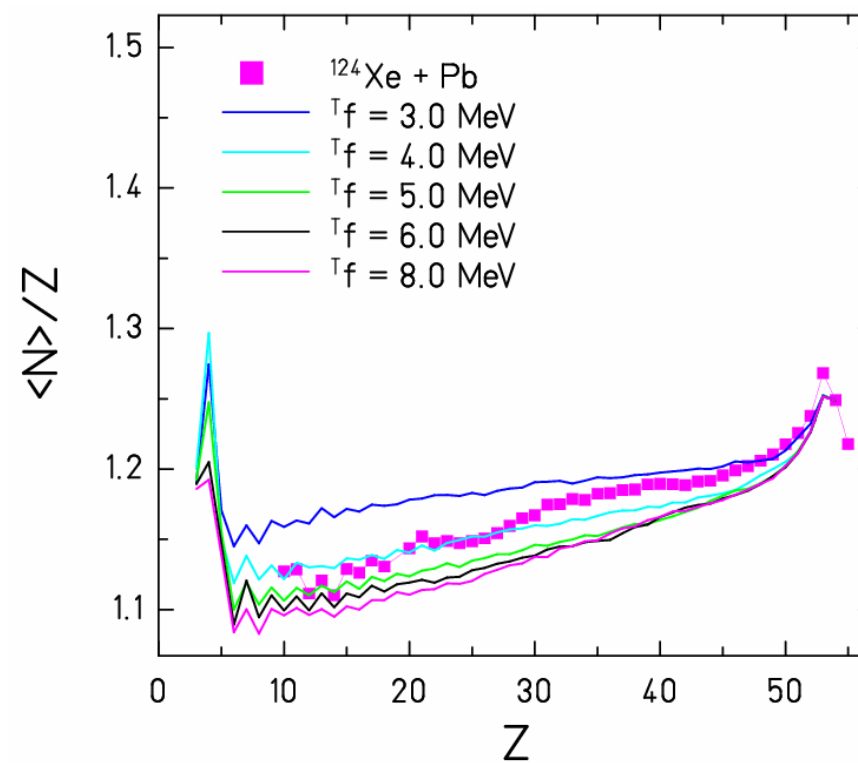
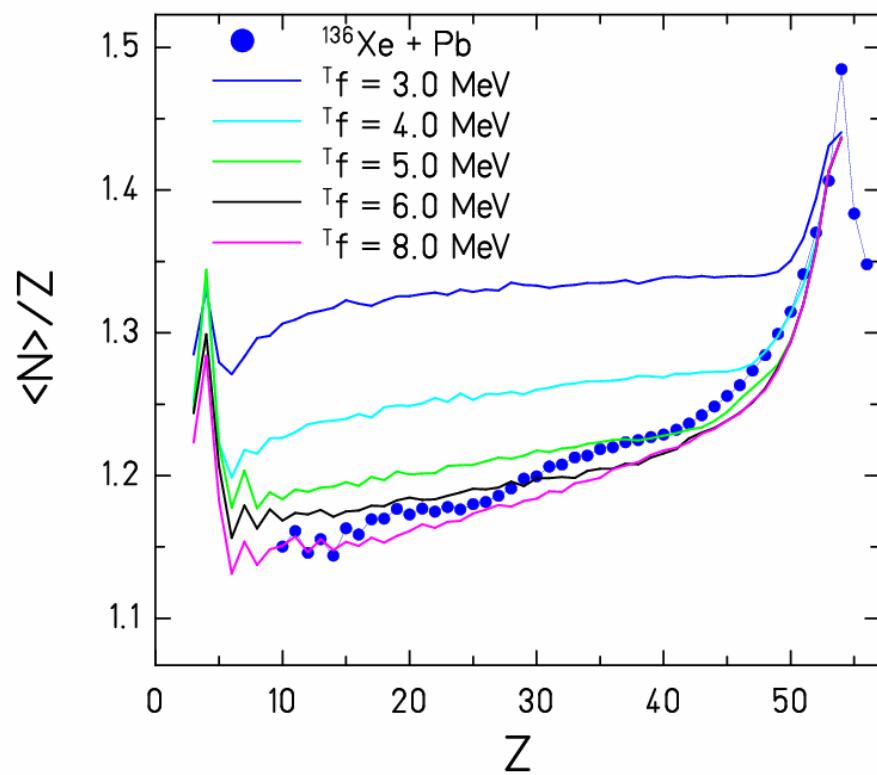


ABRABLA

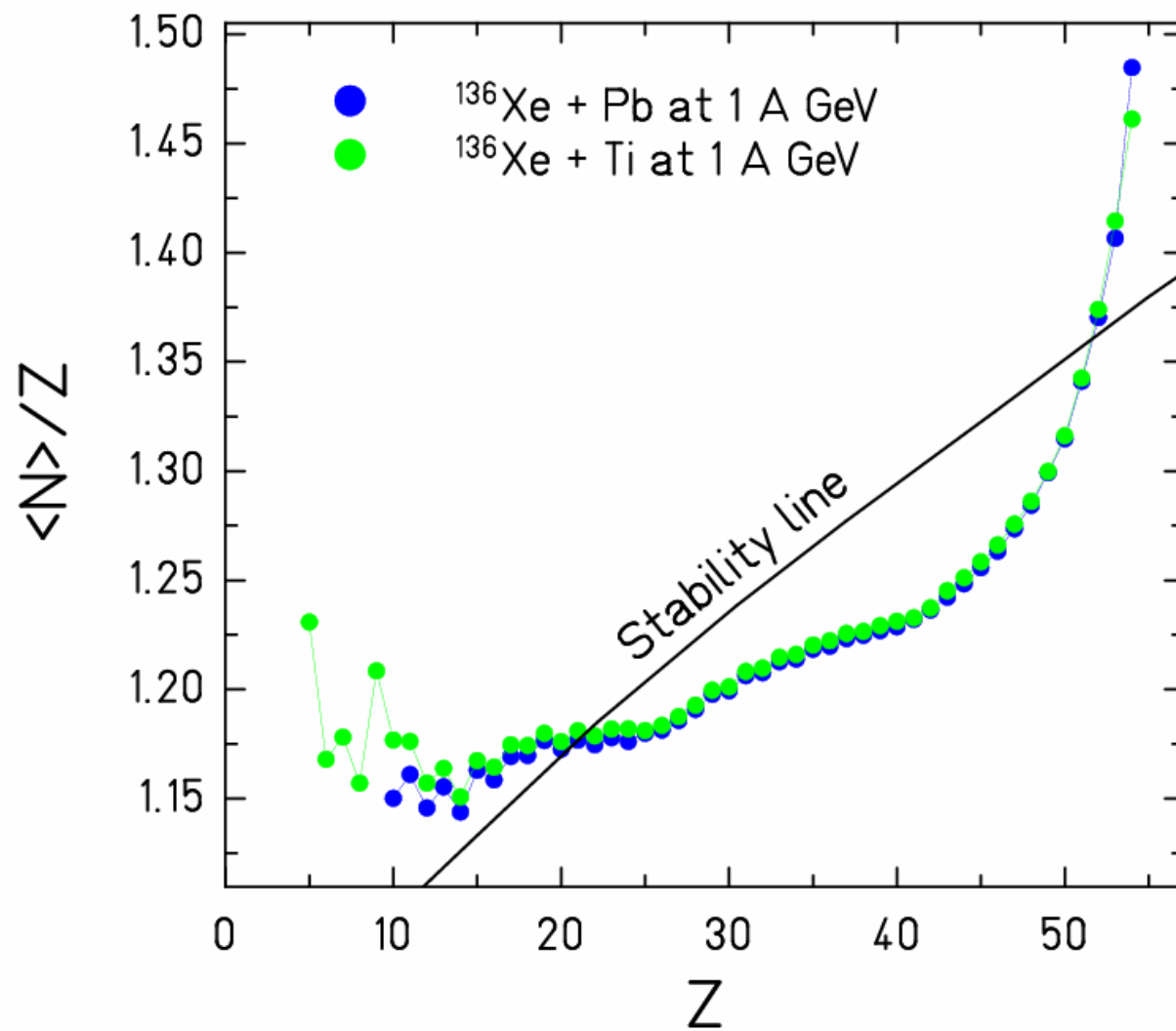
Evaporation of n, p, alpha



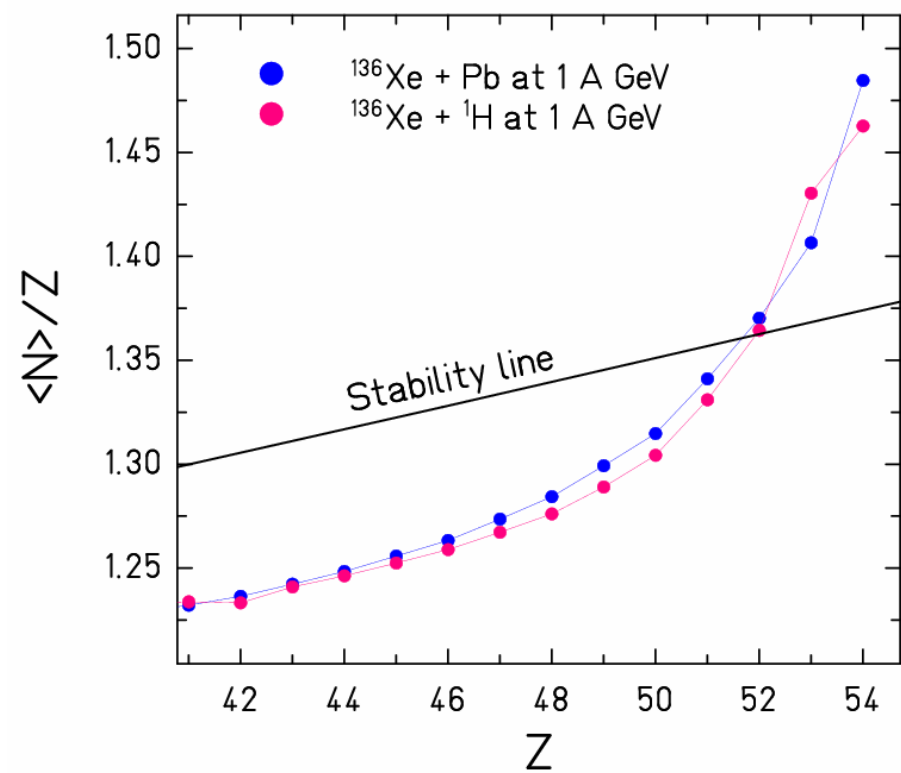
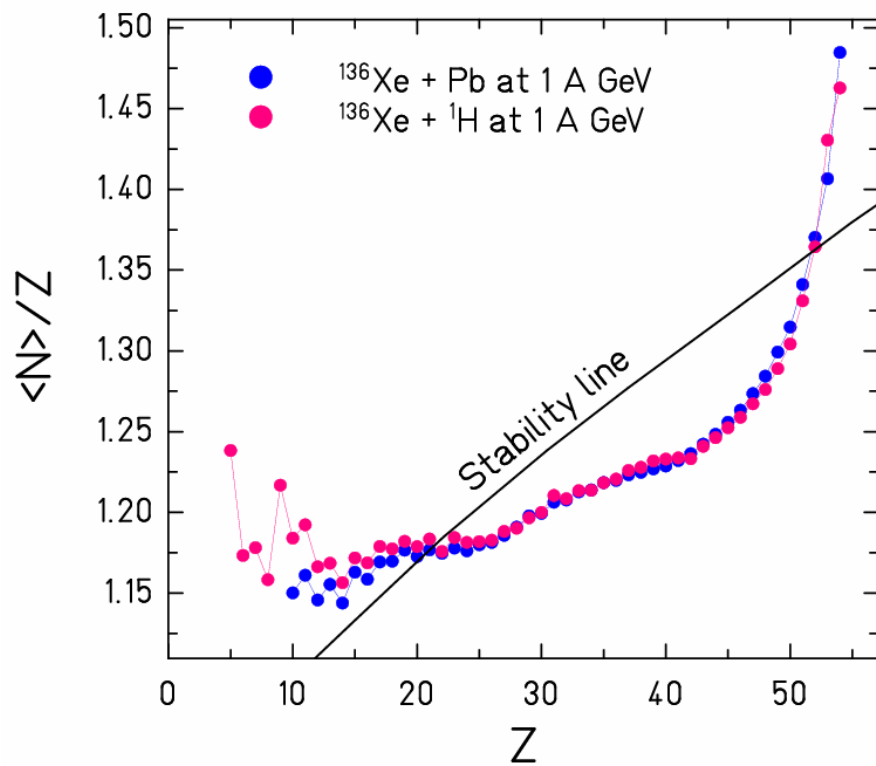
Emission of LCP, IMF



Data comparison

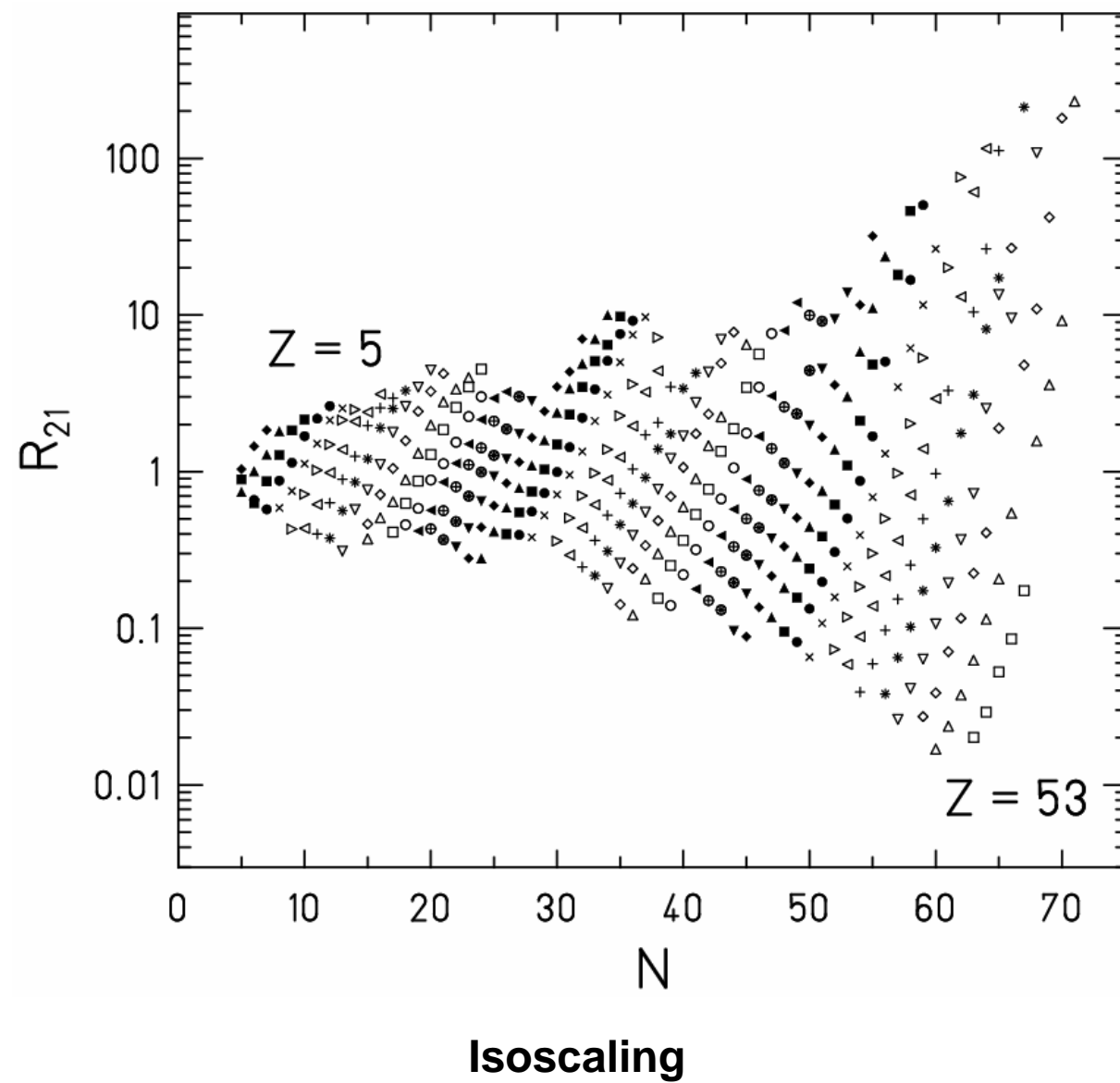


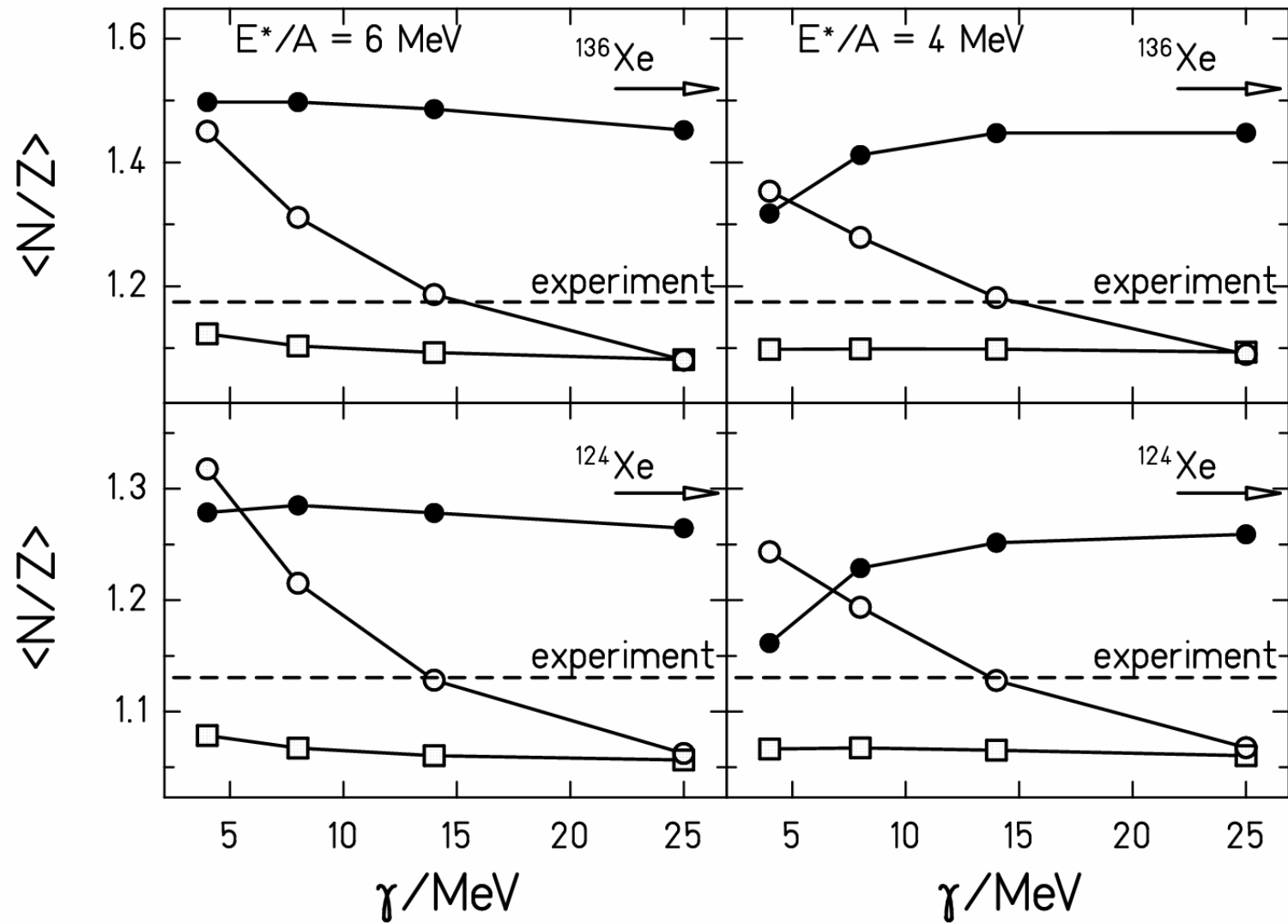
Dependence on the target : Ti, Pb



Dependence on the target : Pb, H

Isoscaling





Reduction of symmetry-energy coefficient deduced (Botvina)

Summary

- **Complex velocity distributions**
 - Component with heavy remnant in light residues
- **Complete nuclide distributions in $^{124,136}\text{Xe} + \text{Pb}$**
 - Light fragments: additional n-rich prod. in ^{136}Xe
 - Heavy fragments: shifted (memory in N/Z)
- **EPAX**
 - Light fragments: Predictions too low
 - Light and heavy fragments: N/Z shifted
- **ABRABLA**
 - Influence of IMF emission
- **Target dependence**
 - Pb – Ti: identical shape of isotopic yields
 - Pb – H: more evaporation in H
- **Isoscaling**
 - Reduction of symmetry-energy coefficient