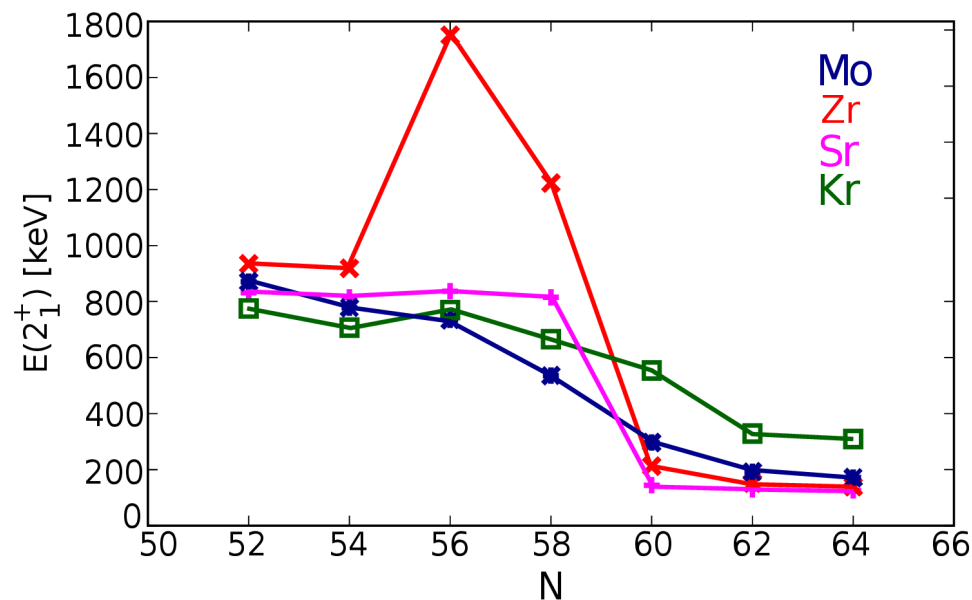
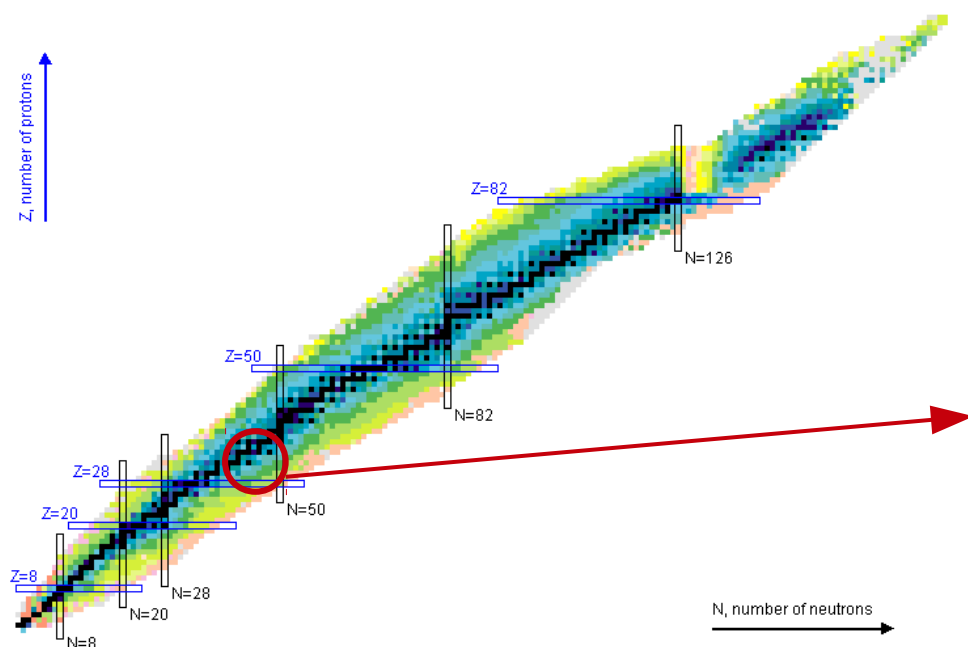
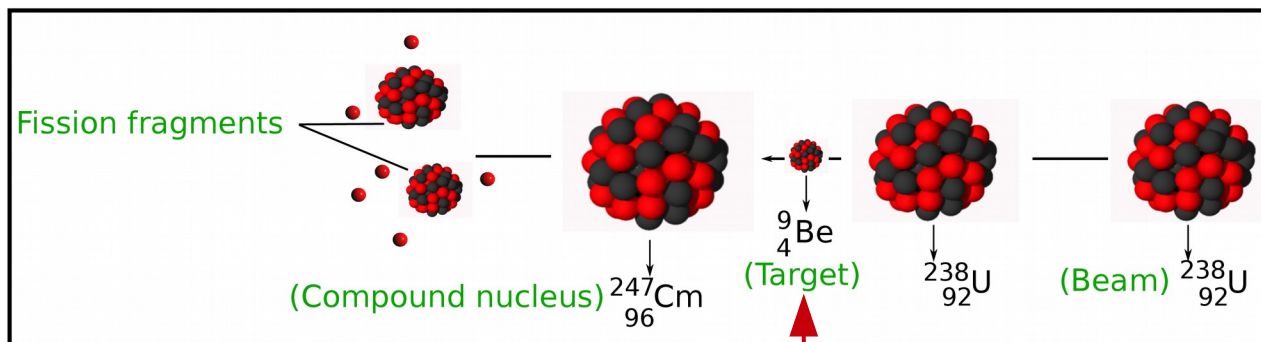


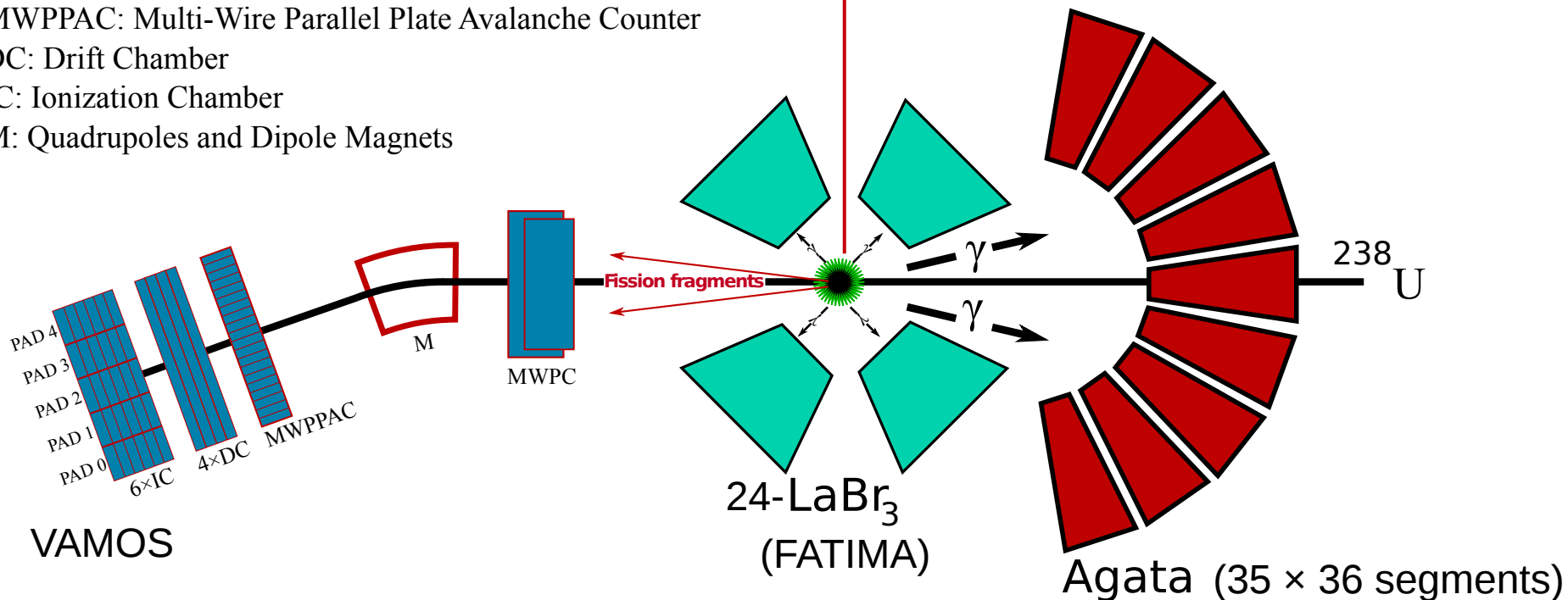
- How does subatomic matter organize itself?
- What is the nature of the nuclear force that binds protons and neutrons into nuclei?
- What is the origin of simple patterns in complex nuclei?

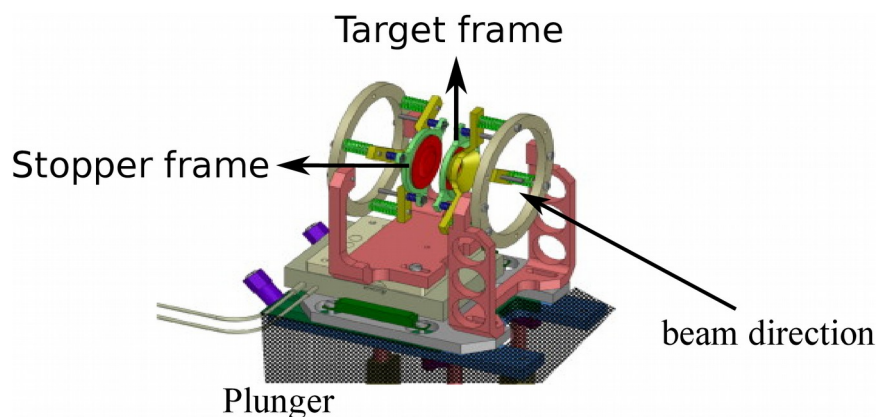


- Experimental evidence of shape transition at N=58-60.
- Evolution of the 2^+_{1} excitation energy as a function of neutron number in the $A \sim 100$ region.
- Experimental measurements of **transition strengths ($B(E2)$)** are required to understand the shape evolution.

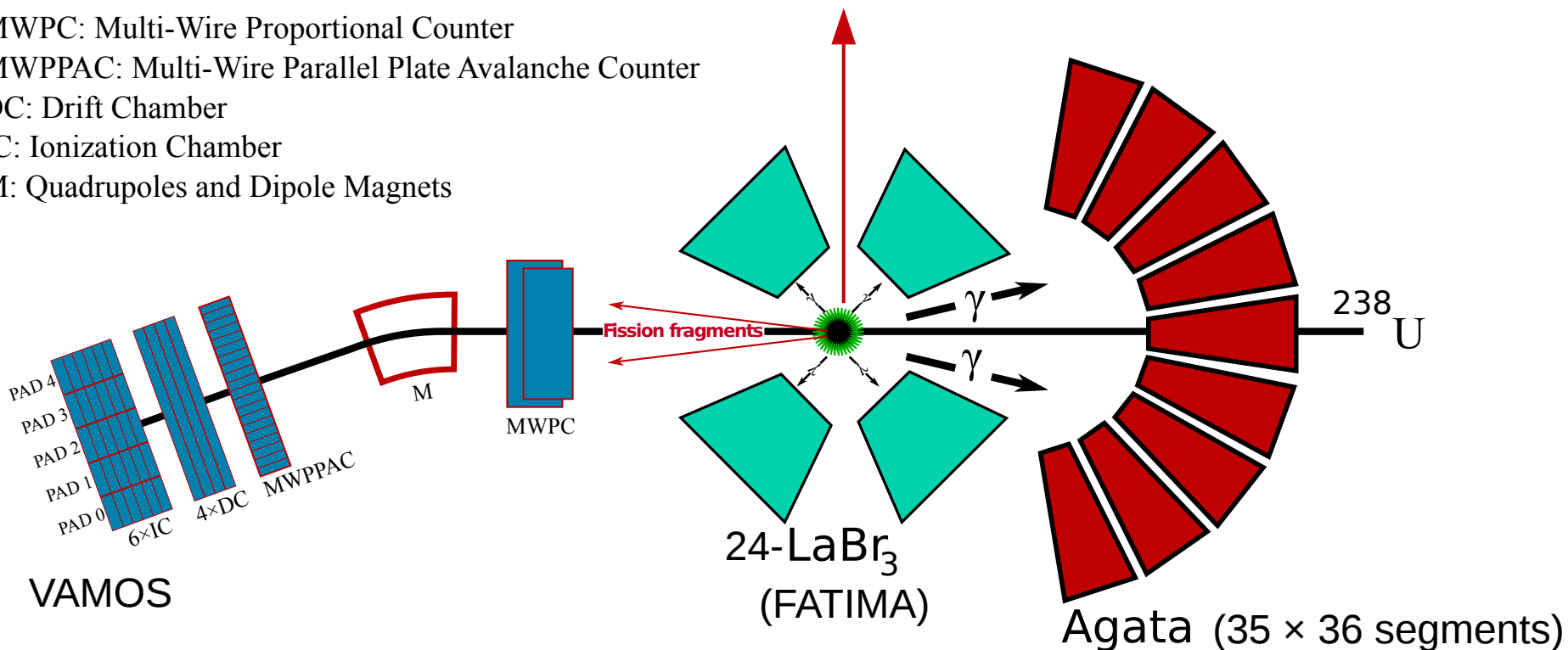


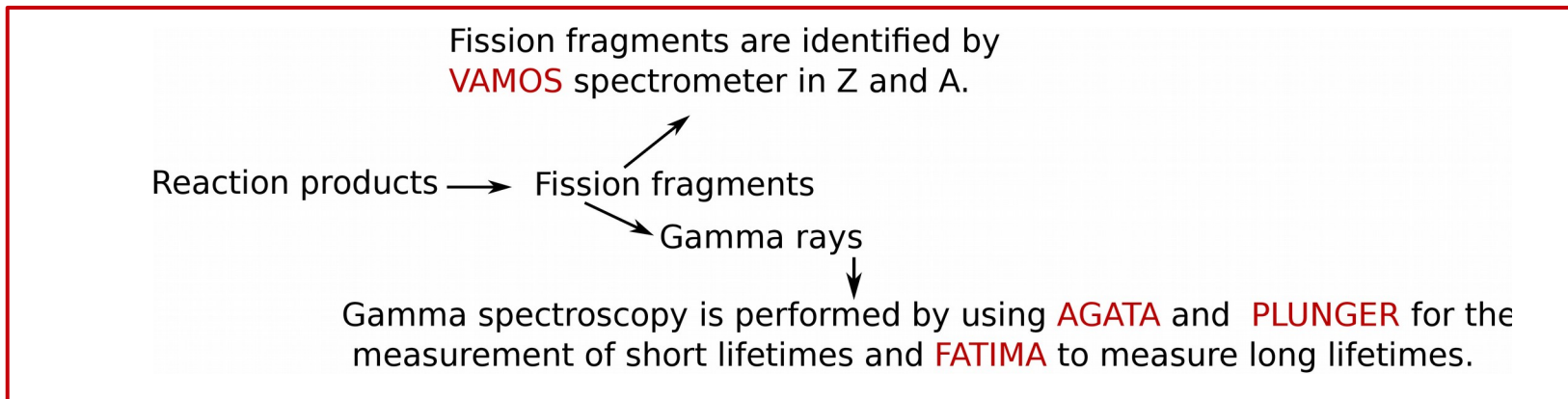
MWPC: Multi-Wire Proportional Counter
 MWPPAC: Multi-Wire Parallel Plate Avalanche Counter
 DC: Drift Chamber
 IC: Ionization Chamber
 M: Quadrupoles and Dipole Magnets



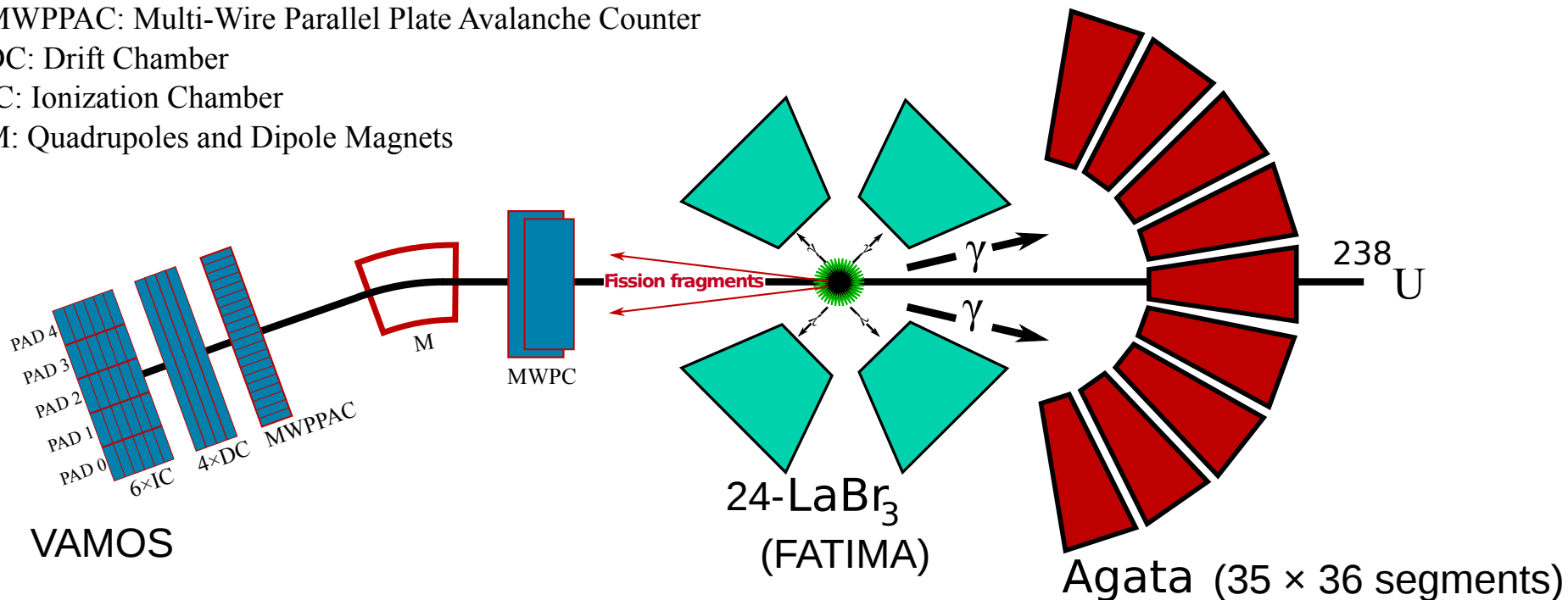


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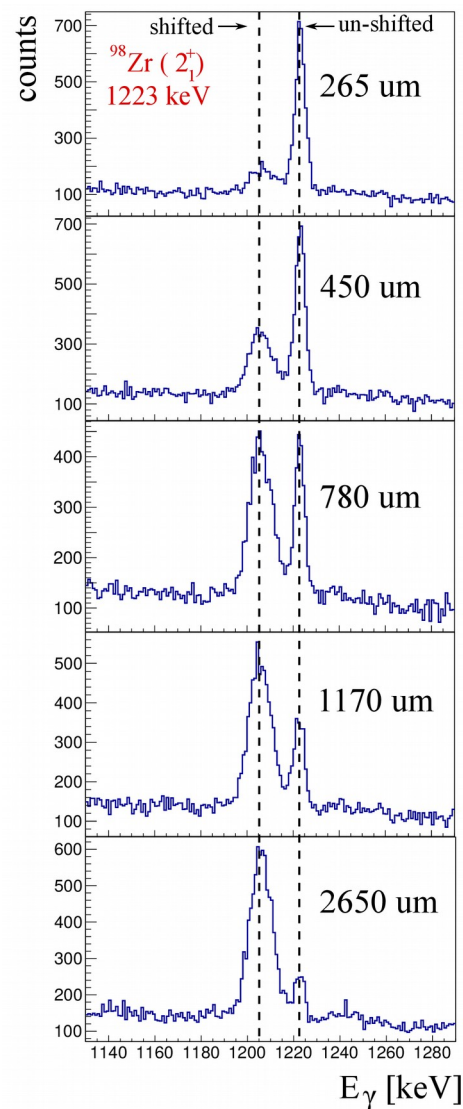
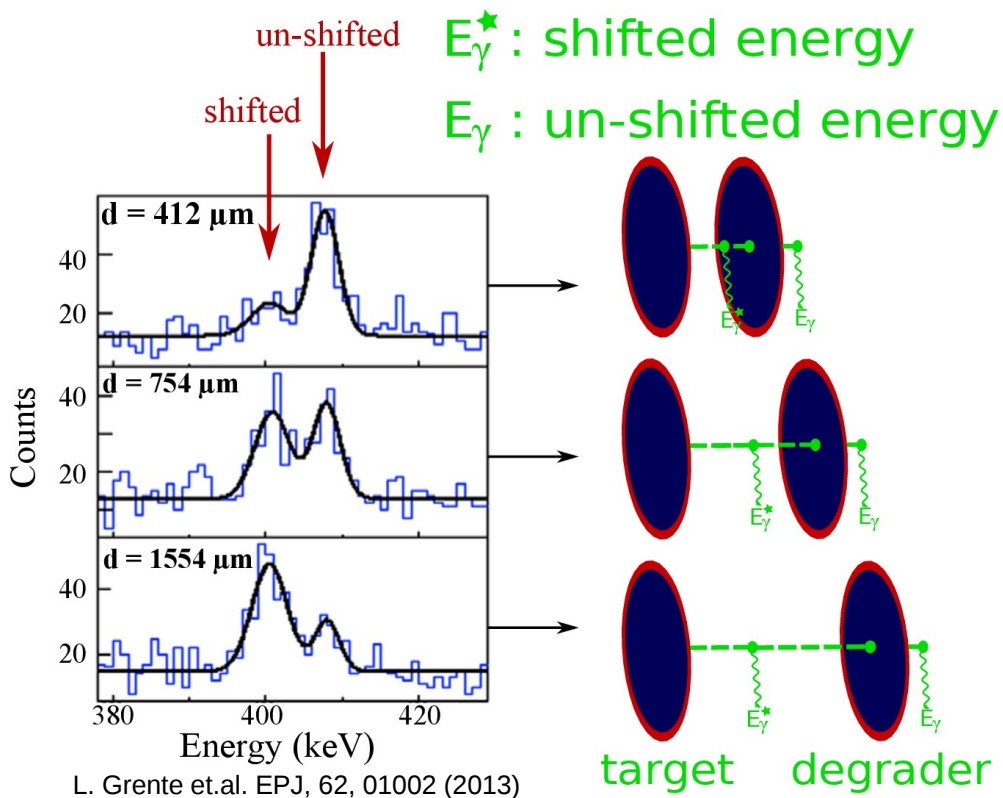




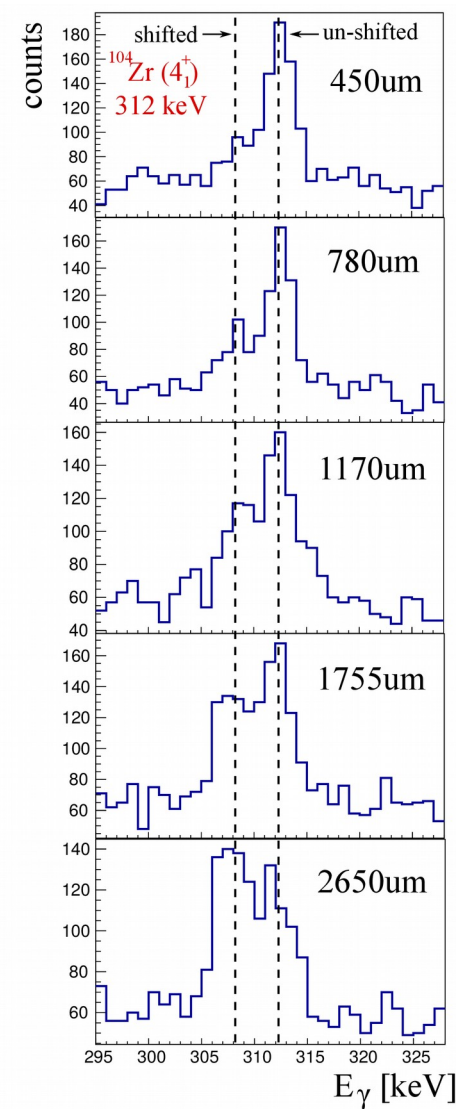
- MWPC: Multi-Wire Proportional Counter
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Recoil Distance Doppler Shift method



Strong channel



weak channel

Work in progress ..



UiO : Universitetet i Oslo



THANK YOU

