Basics of radiometry

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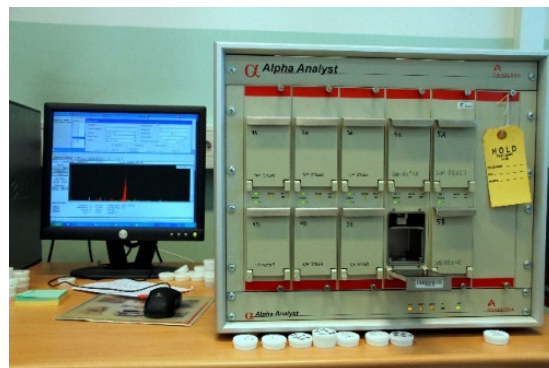
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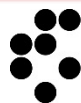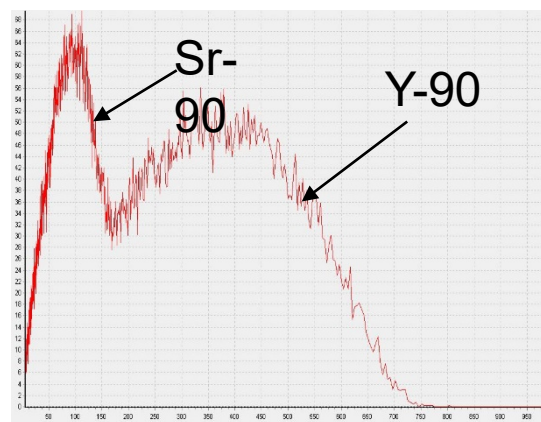
Radiometry

Gamma spectrometry
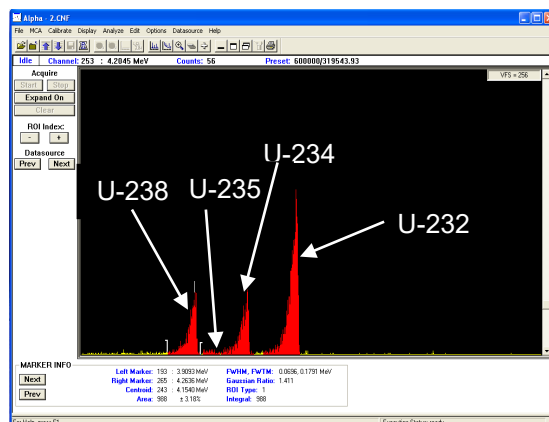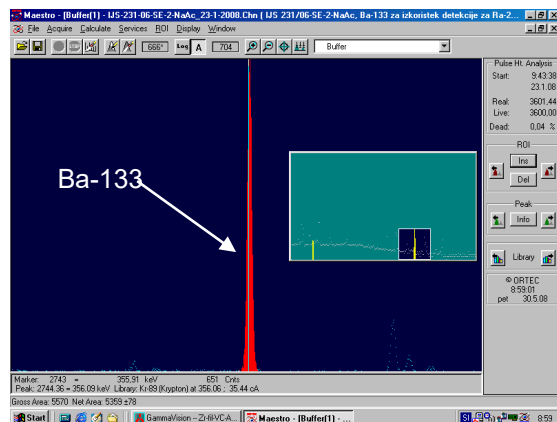
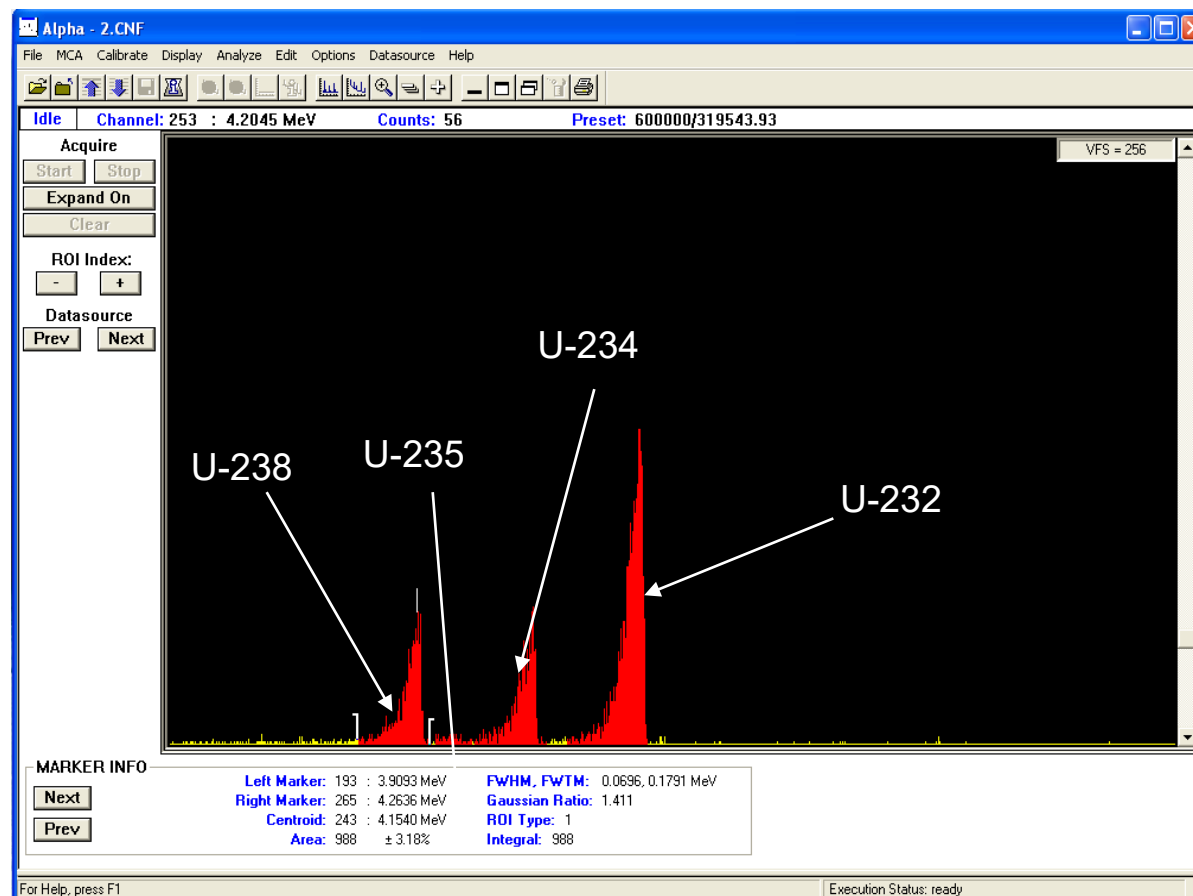Alpha spectrometry

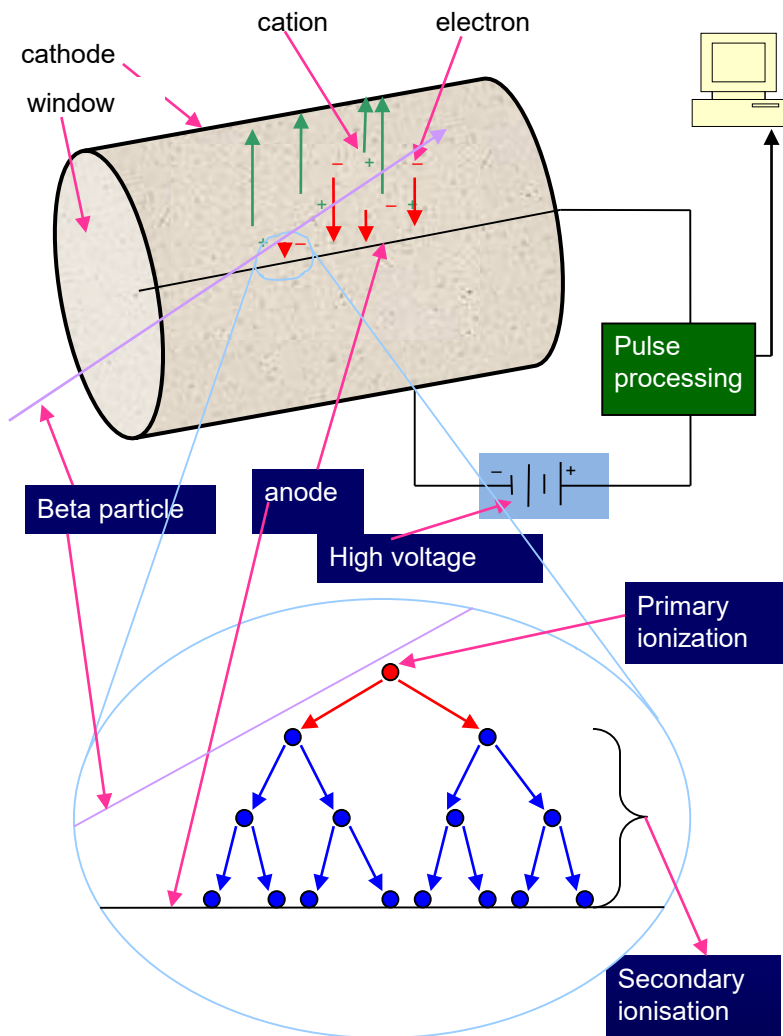Liquid scintillation counting

Proportional counting
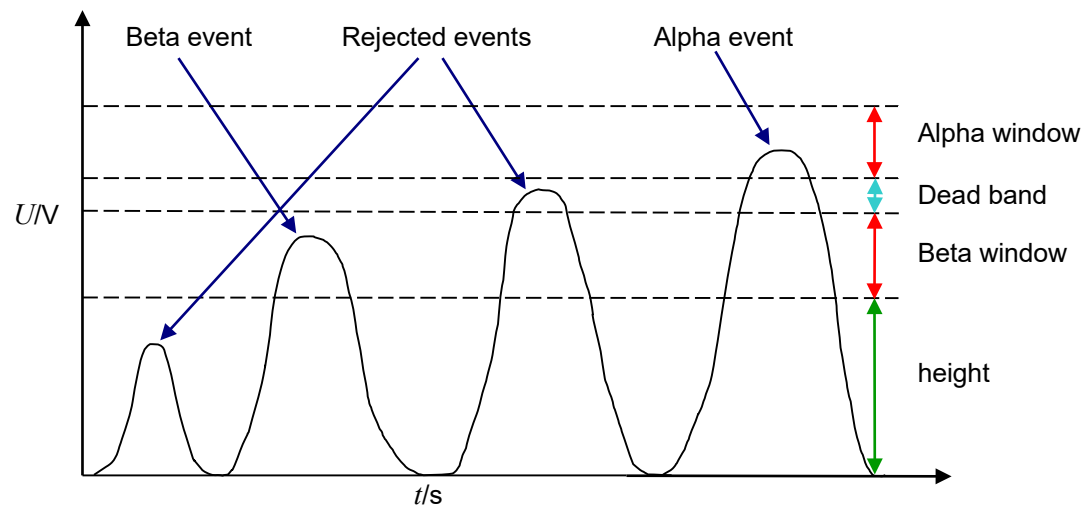
Alpha-particle spectrometry

- PIPS semiconductor detectors

- Calibration
  - energy
  - efficiency

- Energy range 3-6 MeV

- Low energy tailing

- Importance of radiochemical separation

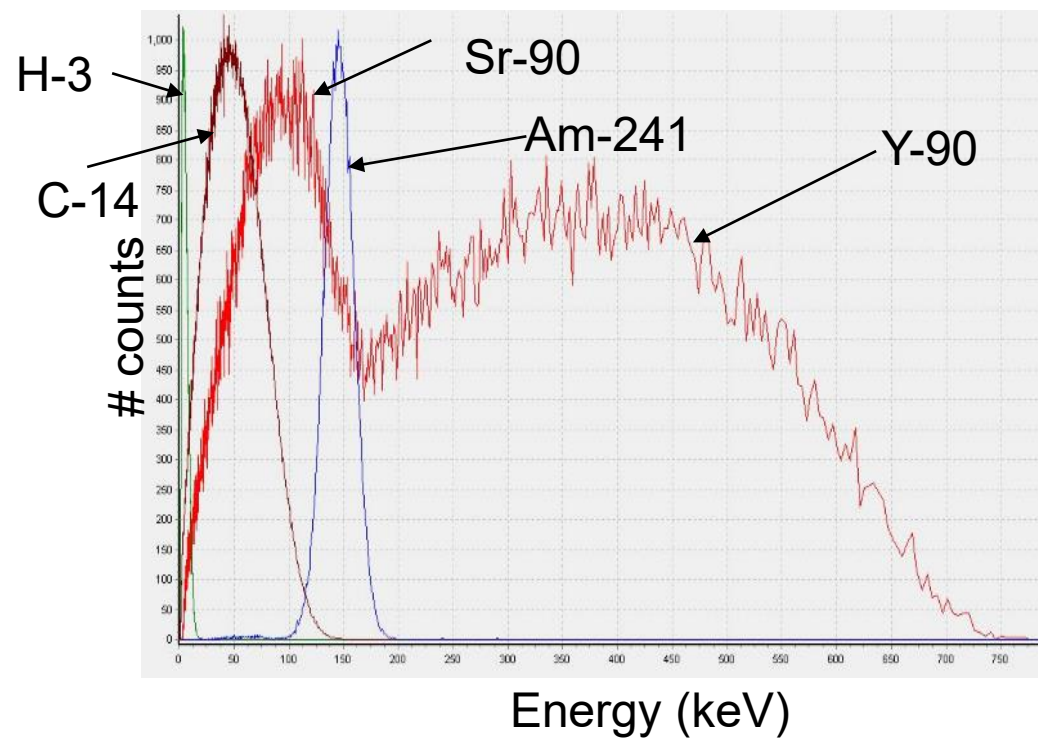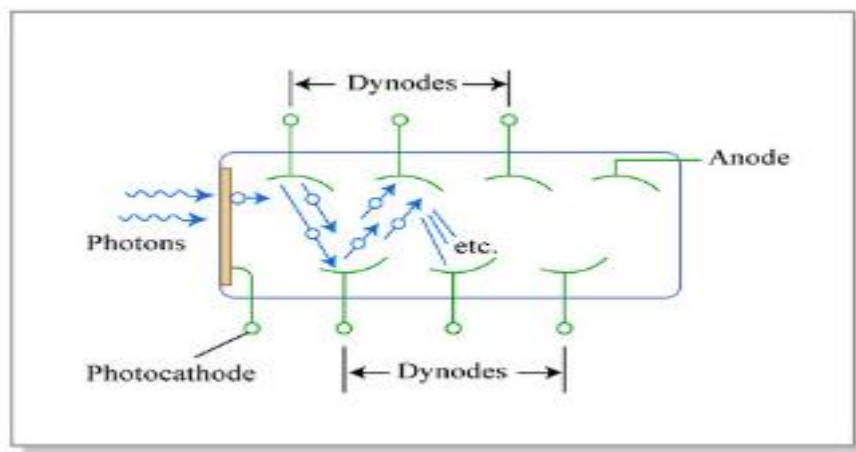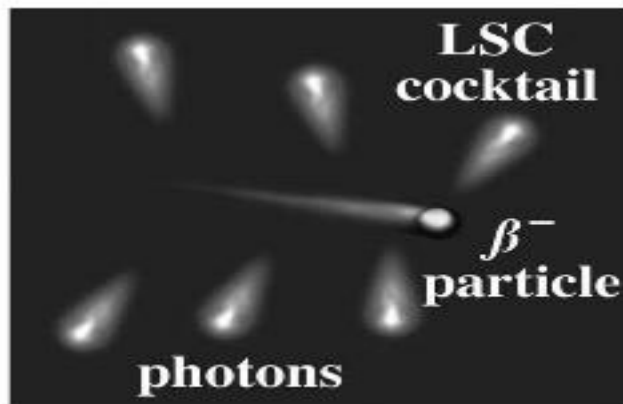Institut "Jožef Stefan", Ljubljana, Slovenija

Proportional counter

- No spectrum => information only if detected was alpha or beta emitter
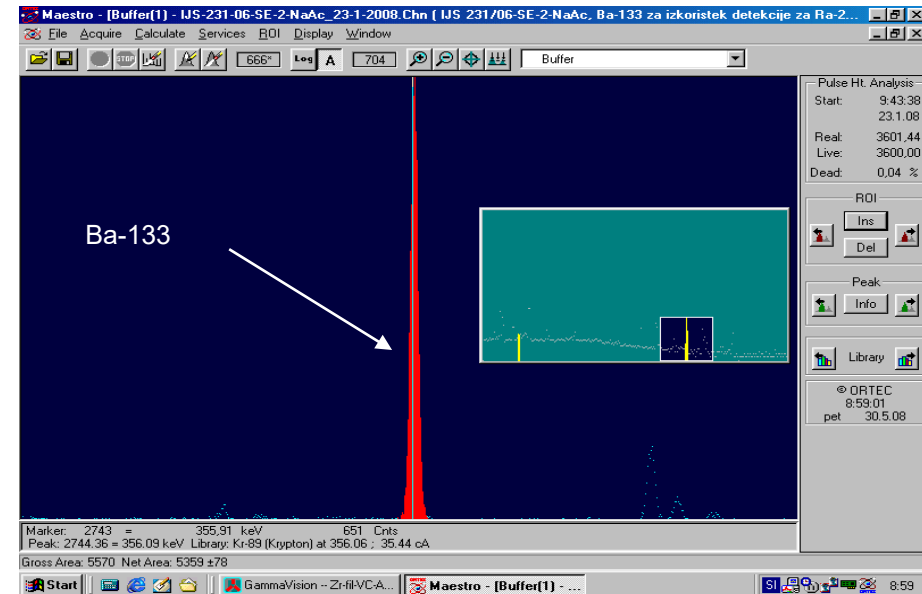
- Importance of radiochemical separation
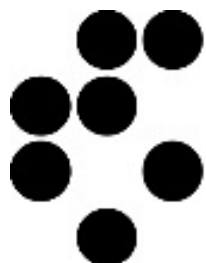
Liquid scintillation counting

Gamma spectrometry

- HPGe detectors

- Calibration
  - energy
  - efficiency

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