## Interesting effects in well-known radioactive decays

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"Exotic" or "interesting" effects in radioactive decays are not necessarily associated with very exotic nuclides. Some may be studied with radionuclides close to stability, partially even with commercially available sources, such as <sup>7</sup>Be, <sup>57</sup>Co, <sup>137</sup>Cs or <sup>252</sup>Cf.

This lecture will address questions like:

Can the radioactive decay be influenced by temperature, pressure, chemical environment, etc.?

Can double gamma decay compete with single gamma decay?

A neutrino and what else? Looking into details of the electron capture decay.

Can low energy fission produce three heavy fragments?