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Shape effects from total absorption measurements

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.The concept of nuclear shape plays an important role in our present understanding of nuclear structure. For that reason it is important to have methods to infer the shape of a nucleus in any state of excitation or in particular in its ground state. In this talk I will describe how a proper measurement of the beta strength in beta decay studies can provide in particular cases information about the prolate, oblate or spherical character of the decaying parent state. For the measurements the appropriate technique, the total absorption technique, is needed in order to avoid the so-called Pandemonium effect. I will cover the measurements performed at ISOLDE(CERN), discuss some examples of measurements performed at IGISOL, Univ. of Jyväskylä, and present future ideas for more exotic regions of the nuclide chart where a combination of techniques might be needed.

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