

Nuclear Moments of Isomeric States at REX-ISOLDE - Ideas and Necessities

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The nuclear moments are an important ingredient of our nuclear structure knowledge. Their contribution is crucial when one discusses the development of the nuclear shells far from stability. However, presently there are no techniques that can be directly applied for the studies of short-lived isomeric states produced by ISOL beams. Some ideas about the use of post-accelerated radioactive beams for nuclear moment studies of short-lived isomeric states will be presented. The emphasis will be on possible methods of producing the isomeric states in a spin-oriented manner. The difficulties resulting from the use of radioactive beams and the demands towards the technical characteristics will be discussed. Some ideas about possible near future experiments will be presented as well

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