

New Half-live Results On Very Long-living Nuclei

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The investigation of unstable nuclides with half-lives well beyond the age of the Universe is still a challenge. Decay modes satisfying this condition are long-living alpha decays, highly forbidden beta decays as well as electron captures and double beta decays. Various new measurements will be presented, containing information on long living alpha decays like Sm-147 and Pt-190, 4-fold forbidden beta decays of Cd-113 and V-50 including spectral shapes and also double electron captures and double beta decays results of various isotopes. Furthermore, the talk will also include a new half-life measurement of nature's rarest isotope Ta-180m.