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Study of isomeric yield ratios for natural tellurium in the bremsstrahlung end-point energies of 60-70 MeV

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We will present some measurement results of the yield ratio of the high spin state to the low spin state of the isomeric pair for some isomeric products in the natural tellurium by photo-nuclear reaction. The experiment was performed by irradiating tellurium samples with bremsstrahlung end-point energies of 60-70 MeV by activation and the off-line ray spectroscopic technique, using the 100 MeV linear electron accelerator at Pohang Accelerator Laboratory (PAL), Korea. The obtained results are compared with the theoretical prediction using the computer code TALYS 1.9 based on mono-energetic photons. For theoretical computation in TALYS 1.9 code, we also used level density modes and strength function models.

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