

ISOMERISM AND DECAY OF ODD-ODD NUCLEI 156,158,160Ho NEW ISOMER $T_{1/2} = (1.8 \pm 0.2)$ min 156Ho

Wednesday, 13 July 2022 18:40 (20 minutes)

Combined talk

ISOMERISM AND DECAY OF ODD-ODD NUCLEI 156,158,160Ho

NEW ISOMER $T_{1/2} = (1.8 \pm 0.2)$ min 156Ho

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The experiments were carried out within the "Energy + Transmutation" project with the 660 MeV protons of the Phasotron accelerator at JINR.

The investigated neutron-deficient odd-odd 156Ho isotopes were produced in deep spallation reactions using lead targets and 165Ho monoisotope samples.

1.V.G.Kalinnikov et al. // Int. conference on nuclear physics «Nuclear shells - 50 years». Summaries of reports. 88. Dubna, Russia, 1999

COMPARISON OF THE YIELDS OF 238U FISSION PRODUCTS AFTER IRRADIATION BY PROTONS ($E_p = 660$ MeV), NEUTRONS ($E_n \leq 660$ MeV) AND ELECTRONS ($E_e = 140$ MeV)

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The experiments were carried out at JINR accelerators: proton synchrocyclotron ($E_p = 660$ MeV) and linear electron accelerator (E_e up to 200 MeV). Lead was used as a converter for the proton beam, and bismuth was used as a converter for the electron beam [1].

1.S.I. Tyutyunnikov et al. // Int. Conf. 86-88, Tashkent, 23-25 November, 2021.

TARGET 209Bi ON AN ELECTRON BEAM AT ITS $=180$ MeV

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Experiments within the framework of the Energy and Transmutation project [1] were carried out using the LINAK-200 accelerator at JINR. 209Bi samples were irradiated in the field of electron bremsstrahlung with $E_e = 180$ MeV. The possibility of studying the decay of short-lived odd-odd nuclei $cA=196-202$ and obtaining their maximum yields was investigated [2].

1. S.I. Tyutyunnikov, V.I. Stegailov et al., //NUCLEUS-2020. St-Petersburg, 117-118 (20)

2. S.S. Belyshev et al., // Eur. Phys. J. A 51, 67 (2015).

The speaker is a student or young scientist

No

Section

1. Experimental and theoretical studies of nuclear reactions

Primary author: Mr STEGAYLOV, Vladimir (JINR)

Presenter: Mr STEGAYLOV, Vladimir (JINR)

Session Classification: Experimental and theoretical studies of nuclear reactions