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## ISOMERISM AND DECAY OF ODD-ODD NUCLEI 156,158,160Ho NEW ISOMER T1/2 = $(1.8 \pm 0.2)$ min 156Ho

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

## Combined talk

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

NEW ISOMER  $T1/2 = (1.8 \pm 0.2) \text{ min } 156\text{Ho}$ 

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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 (Ep = 660 MeV), NEUTRONS (En  $\leq 660$  MeV) AND ELECTRONS (Ee = 140 MeV)

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The experiments were carried out at JINR accelerators: proton synchrocyclotron (Ep = 660 MeV) and linear electron accelerator (Ee 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 =180MeV

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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 Ee =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