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Study of the region of the superheavy elements at the DGFRS: recent experiments and results

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Anotace

More than 50 new isotopes of the nuclei with $Z = 104-118$ from the predicted "Island of stability" of superheavy elements (SHE) were synthesized for the first time at the Flerov Laboratory of Nuclear Reactions (JINR, Dubna) using Dubna Gas-Filled Recoil Separator (DGFRS) and heavy ions cyclotron U-400 during last 15 years.

Due to this research the Periodic Table of Elements was recently filled with six new elements $Z=113$ (Nh), 114 (Fl), 115 (Mc), 116 (Lv), 117 (Ts) and 118 (Og). Decay properties of these nuclei point to a considerable stabilizing effect when approaching the predicted neutron closure shell at $N=184$. Recently we continued exploring the island of stability of the SHE in searching for the new isotopes at the edge of the new SHE region.

Sekretariát

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