EXPANSION OF THE POSSIBILITIES AND REPLENISHMENT THE LIBRARY OF THE ESTIMATED NUCLEAR DATA (THE SABA LIBRARY)

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Having been created within the ICTS projects (#145 and #K-497) the library of experimental and evaluated data on charged particles SaBa was mainly intended for working with integral cross-sections and excitation functions of nuclear reactions.

Within the framework of new ICTS project K-1128 a significant update of the library was carried out to introduce differential cross sections into the data base. There were made important changes in the modes "Experimental data" and "New reaction". A procedure of data fitting with Legendre polynomials has been implemented. Using a modified version new data on elastic scattering of ^{3}He и α-particles on lithium isotopes were input to the library.

Further development of the SaBa Library is expected to take place. Taking into account the newly appeared experimental data there will be obtained new evaluations for reactions of lithium isotopes interaction with deuterons and tritons. Users will have a possibility of comparing evaluated data on charged particles from the SaBa library with those from the ENDF/B7.