Contribution ID: **300**   Type: **Oral talk (15 min + 5 min questions)**

Flexible scenario for background suppression in heavy element research

Tuesday, 12 July 2022 10:20 (20 minutes)

New algorithms to operate with new analog spectrometer of the DGFRS2 installed at DC-280 cyclotron setup are presented. The main goal of application of these algorithms is to search an optimal time correlation recoil-alpha parameter directly during the acquisition C++ code execution. A new real-time flexible algorithm is presented in addition to the conventional ER-α one which is in use for a few years at the DGFRS1 setup installed at the U-400 FLNR cyclotron. Note that the spectrometer operates together with the 48×128 strip DSSD (Double Side Strip Detector; 48x226 mm^2) detector and low pressure pentane-filled gaseous detector (1.2 Torr; 80x230 mm^2) are presented schematically. First beam test results in ^{48}Ca induced nuclear reactions are presented too.

The speaker is a student or young scientist

No

Section

1. Applications of nuclear methods in science and technology

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Session Classification: Applications of nuclear methods in science and technology