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New Analog Electronics for the New Challenges in the SHEs Synthesis

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The new series of the experiments aimed at the synthesis and decay properties studying both the most neutron-deficient isotopes of element Fl (Z = 114) and the heaviest isotopes of 118 element have being planned at the DGFRS (FLNR JINR). An appropriate registering system should be implemented to serve spectrometric data coming from the full absorption double-sided silicon strip detector (DSSSD. Thus, new analog modules were designed allowing to simplify existing multi-channel measurement system and to improve the real-time "active correlation"method of the searching for the SHE's formation rare events. The main features of the new modules of the 16-channel charge-sensitive preamplifier, 16-channel analog multiplexer and 1.25 MSPS 12-bit Parallel ADC are presented.

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