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Development status of the detector system for IF separator at RAON

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In-flight fragment (IF) separator at RAON aims to generate various rare isotopes and separate isotope beams of interest. Detector system for beam particle identification at the separator has been developed based on TOF-B ρ - ΔE method. Parallel plate avalanche counters (PPACs), plastic scintillators, and silicon detectors will be used to measure the position, timing and energy-loss of the isotopes produced by the separator. IF detectors and data acquisition (DAQ) system are currently being installed at the focal planes of IF separator. Details on the development status of detector and readout systems of IF separator will be discussed in the presentation.

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