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USING OF FILM SCINTILLATION DETECTORS FOR MONITORING THE OPERATING CONDITIONS OF A PHYSICAL SETUP

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Film scintillation detectors 0.3-0.5 *mm* thick and their corresponding optical fiber are used to detect α-radiation and various nuclear reaction products.
These detectors and the used spectrometric electronics make it possible to register radiation and transmit information with a frequency of more than 10^5 pulses per second and pulse duration ≤ 5 *ns*.
In combination with film-based detectors, XP2020 photomultiplier tubes were used.
The film scintillation detectors were made according to Russian Technology.

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