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# The Design of Integration Device of Neutron and Gamma Ray for Measuring Uranium

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In this paper, the integration device of neutron and gamma ray was designed for measuring barreled uranium material which is the after-product in fuel element plant.
For barreled uranium with middle and low density matrix, the device used segment gamma ray scan technology and Monte Carlo imitation method to analysis the mass of uranium. For high density material, it added a neutron half-collar, and used total neutron technology to get the mass.
The measurement results of the device will act as support data for accounting balance in nuclear fuel element plant.

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