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## **Pulse Shape Analysis with the AGATA Demonstrator**

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AGATA (Advanced GAMMA Tracking Array) is a new type of spectrometer using gamma ray Tracking. The principle of tracking bases strongly on the high segmentation of these detectors in combination with digital electronics. This allows to obtain online position information for the individual gamma interactions within the germanium shell with a resolution much beyond the physical segmentation volume of the detectors. A short introduction will be given on how the pulse shape analysis for AGATA is working. Some novel techniques on the characterization of these detectors will be presented as required for PSA. Finally it will be shown how position information is helpful to correct for neutron damage.

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