



AXINT SAS :

Detectors for ionizing radiations.

AXINT SAS - 181 route de l'Azergues 69480 LUCENAY- FRANCE
Tel +33(0)6 29 85 94 53

RCS Villefranche sur Saône 500 916 804 – SIRET 500 916 804 00023 – TVA intracommunautaire FR 40 500 916 804



ABOUT AXINT :

- AXINT is a spinoff from Lyon 1 University, LPCML laboratory.
- Axint was created in 2007.
- Main activity : Radiation detectors, mainly based on SiPM photodetectors.
- MCNP6/CAD simulation studies.
- AXINT develops standart products for markets, and custom products for specific applications.



AXINT MARKETS :

-Medical field : Process and safety control during isotope production (mainly 18 FDG) :

- Detectors for production cells, HPLC and UPLC lines, fumes exhausts control, ambient activity, syringe calibration etc....

-Industrial radiotracers

- 1 inch BGO detectors, 2 inches NaI detectors, custom tomography systems



AXINT MARKETS :

- Nuclear Fuel : Radiometric ore sorting, nuclear enrichment control, Nuclear fuel rod array quality control etc....
- Technologically Enhanced Natural Radiation.
- Aso...



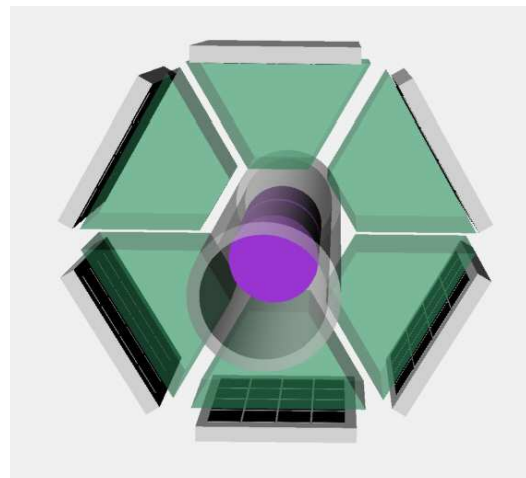
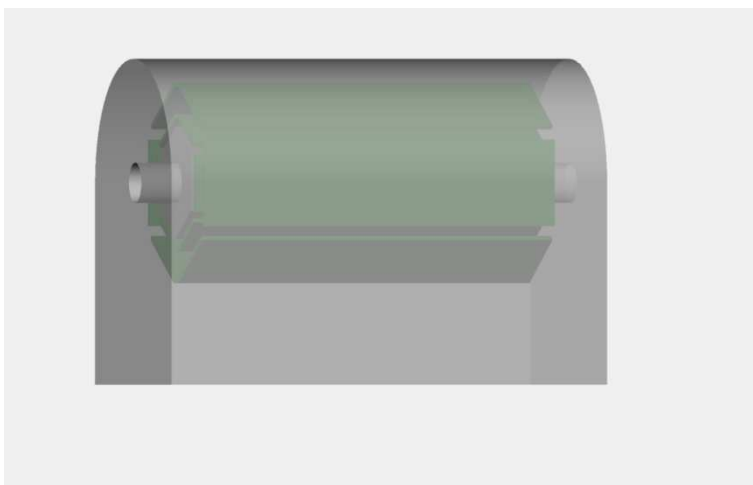
PRODUCTS EXAMPLES

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Neutron activated ^{235}U scanner



Nuclear Fuel rod array quality control

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HPLC/UPLC detectors (18F)



Detectors for medical radioisotopes quality control

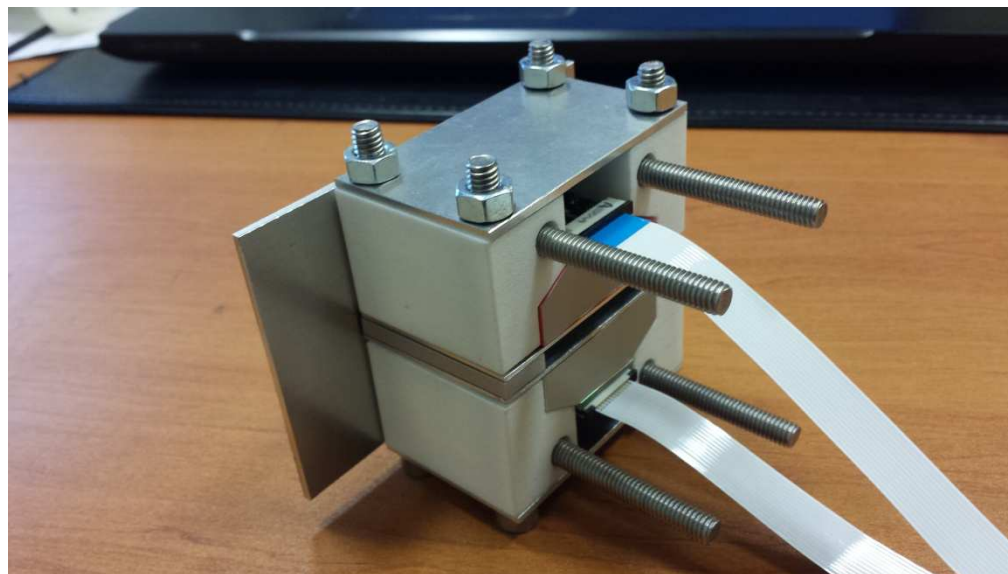
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HPLC/UPLC detectors (18F)



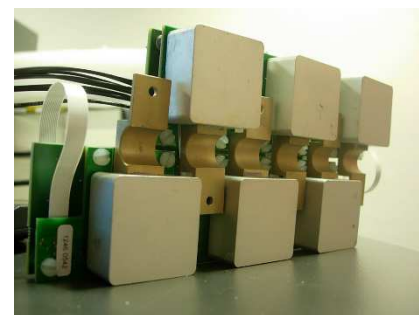
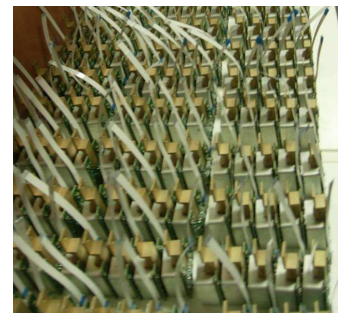
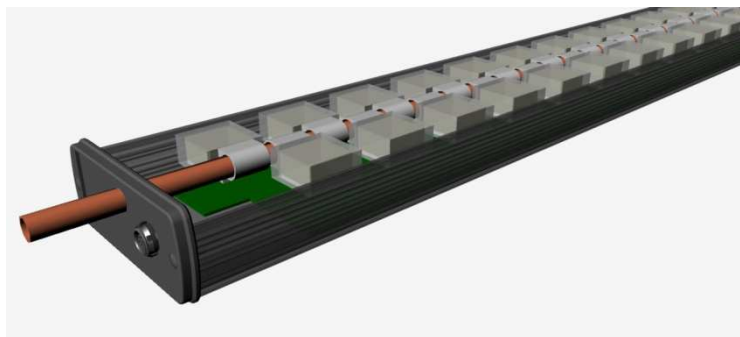
Detectors for medical radioisotopes quality control

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Radiometric uranium ore sorting



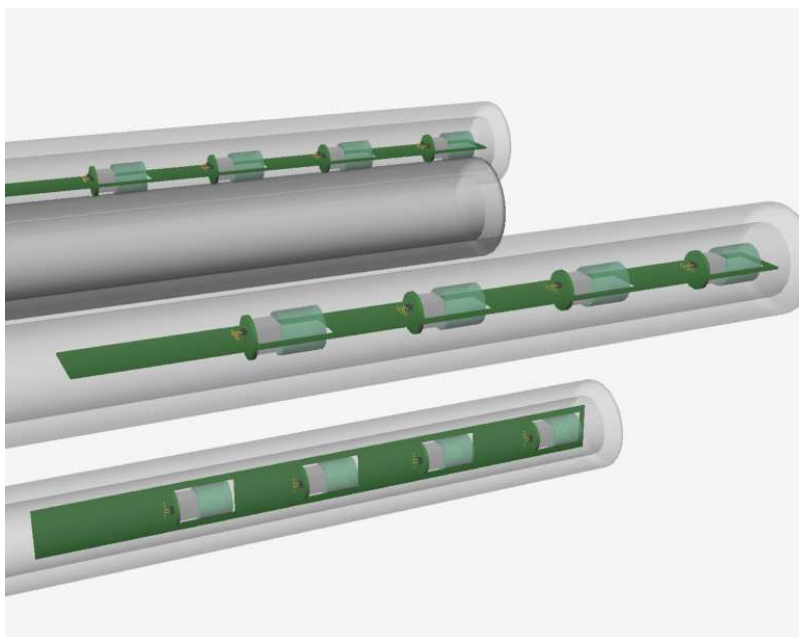
Detector installed in a 70T/h sorting machine

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In-situ detection of ^{22}Na in underground clay layer (ANDRA)



Specific PCB assemblies
developped

Experiments began in 2011

Target : developping an in situ
gamma cartography



In-situ detection of ^{22}Na in underground clay layer (ANDRA)



Detectors installed for 10 years continuous operation at -400m

(Bure, ANDRA research laboratory)

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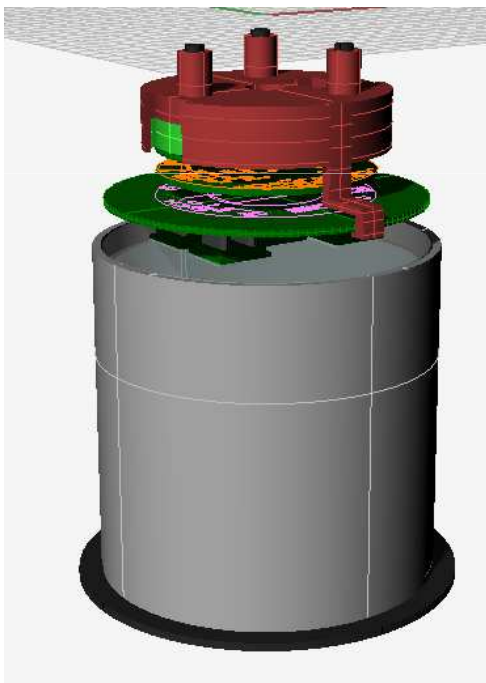
NEW PROJECTS

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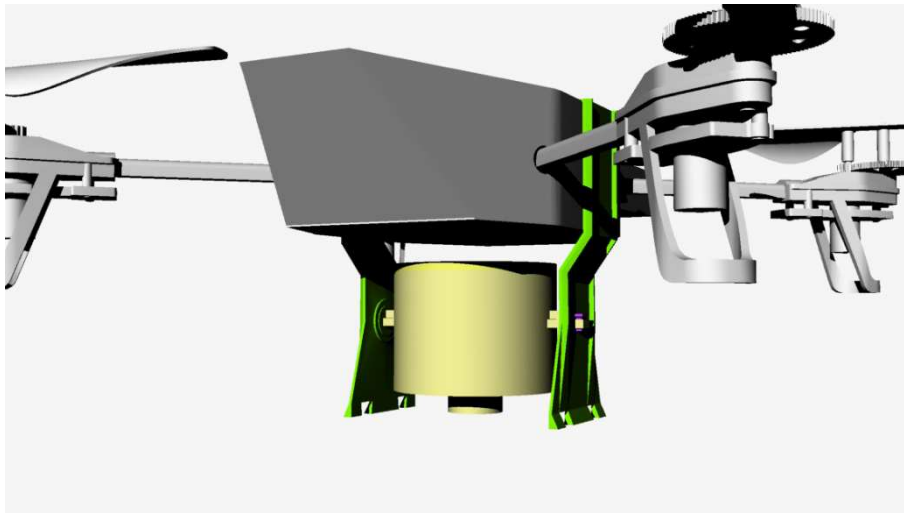
Large size gamma detector



- 3 inches NaI detector
- Improve our existing 2 inches NaI detector
- Objective : 10% Energy resolution
- Collaboration with KAERI



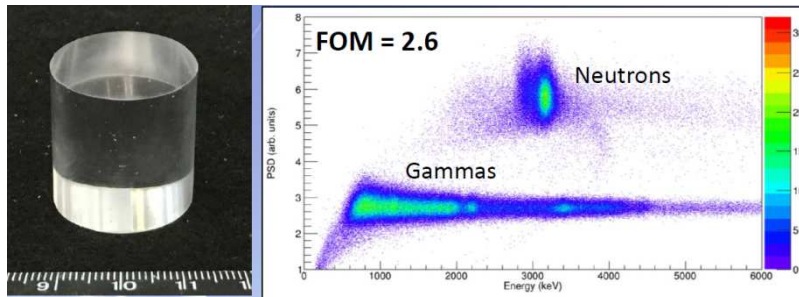
Embeded detector (for drone)



- Development of communication functions dedicated to embeded use
- Weight and power optimised sensors.



Gamma/neutrons sensors



- Integration of PSD crystals
- Development of specific preamplifier and front-end PSD analysis.



AXINT TECHNOLOGIES

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WHICH BENEFITS ?

Compared to other manufacturer products, AXINT detectors offer the following strength :

- Detectors easily compatible with industrial environment (no sensitivity to magnetic fields, no high voltage used)
- Long term signal stability much better than PMT detectors.
- Very high design flexibility du to low size of photodetector : geometry of the detector can be perfectly adjusted to the best detection configuration.



CONTACT

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Or visit our website : www.axint.org