

Method for reducing the background specific to a spectrometric system

Patent Number: R0127062/07.06.2010

DESCRIPTION

The invention relates to a method for reducing the background specific to a spectrometric The method is applied spectrometric system and consists in mounting a hose to the head of an overflow nozzle of a liquid nitrogen cylinder Dewar vessel and in introducing the other end inside a lead enclosure wherein there is a detector, and in mounting around a detector and cryostat support, a metal coil playing a role in shielding electrically and electrostatically the electronics associated to a spectrometric chain and putting to the ground the system shielding enclosure and some jackets which plate the enclosure at the inside, thereby reducing the background radiation spectrum.

APPLICATION DOMAINS

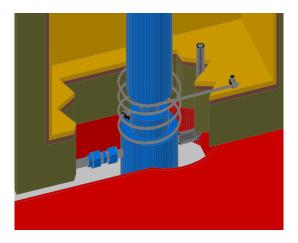
Spectrometric measurements of gammaemitting radioactive materials. Measurement and analysis laboratory, in situ monitoring of radioactivity, nuclear materials for inspections and safeguards, radioactive waste management and decommissioning activities of nuclear installations, or in high resolution gamma spectrometry

MAIN ADVANTAGES

Method fits in the technical field of spectrometric measurements and research/measurement application of nuclear technologies and environmental protection.

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POTENTIAL CUSTOMERS OR COMMERCIAL APPLICATIONS

Nuclear safeguards, monitoring environmental radioactivity, controlled areas and historical materials and nuclear waste

KEYWORDS

Detector, spectrometric system, gamma spectrometry