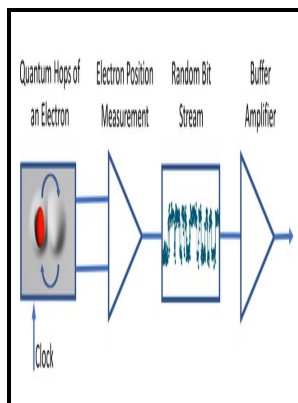


# Study of a Compton suppression spectrometer for the in vivo measurement of mercury using neutron activation analysis.

## - - 1. Introduction



Description: -

- Physics Thesis study of a Compton suppression spectrometer for the in vivo measurement of mercury using neutron activation analysis.

- study of a Compton suppression spectrometer for the in vivo measurement of mercury using neutron activation analysis.

Notes: Thesis (M.Sc.), Dept. of Physics, University of Toronto.

This edition was published in 1983



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Tags: #Neutron #diagnostics #using #Compton #suppression #gamma

### **An innovative Compton suppression spectrometer and its capability of evaluation in multi**

Here two non-destructive techniques are coupled to determine the chemical composition and to visualize the internal structure of heterogeneous objects. Portable Gamma Spectroscopy In recent decades, portable gamma spectroscopy has come to supplement and even replace the traditional radiation monitor for many health physics and security applications. Science of The Total Environment 2012, 416 , 429-435.

### **Nuclear Detector Electronics Applications By XIA**

Zaichick, Bone analysis of N, F and P by photonuclear activation.

### **Hard X**

Environmental Research 2004, 95 3 , 298-304. Gaseous mercury flux from salt marshes is mediated by solar radiation and temperature. Bulletin of the Chemical Society of Japan 1976, 49 9 , 2437-2439.

### **Overview of Industrial Materials Detection Based on Prompt Gamma Neutron Activation Analysis Technology**

Environmental Pollution 2009, 157 4 , 1294-1300.

### **Neutron diagnostics using Compton suppression gamma**

A new Compton suppression system was established. One such case is the assay of spent nuclear fuel and other special nuclear materials by gamma-ray spectroscopy, which is an important element of the nuclear safeguards program. Photochemical reduction and reoxidation of aqueous mercuric chloride in the presence of ferrioxalate and air.

## **In Situ Ge(Li) And Nai(Tl) Gamma**

This work was supported by the National Institute for Occupational Safety and Health NIOSH R21 Grant 1R21OH010044, the Purdue University Nuclear Regulatory Commission NRC Faculty Development Grant NRC-HQ-11-G-38-0006, the National Institute of Environmental Health Sciences R01 ES008146, and the Purdue Research Fellowship Grant.

## **Techniques for boron determination and their application to the analysis of plant and soil samples**

Journal of Radioanalytical and Nuclear Chemistry, 296, 215-221. It is necessary to continuously realize the improvement of technology, strengthen the in-depth integration of production, education and research, and localize the PGNA technology.

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