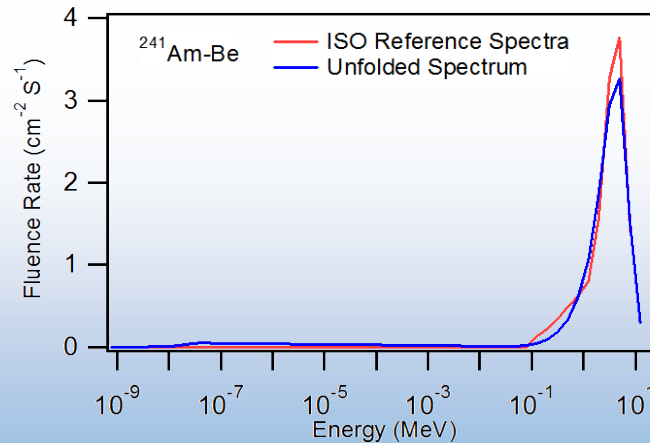


NNS - A NEW APPROACH TO NEUTRON SPECTROSCOPY



Technical specifications

- Total weight - 8 kg
- Size - 23 cm diameter
20 cm height
- Response functions from thermal to 15 MeV and a calibration certificate are provided
- Detector - 1.6 cm diameter
2.5 cm height cylindrical ³He proportional counter
- Electronics - compatible with portable hand-held counters or NIM electronics

Nested Neutron Spectrometer⁺ (NNS)

Measures the neutron fluence spectra and enables the calculation of radiation protection quantities such as dose and dose equivalent

NNS is an efficient, accurate, and convenient single unit system for measuring neutron fluence spectra in nuclear power plants, accelerator facilities, and research laboratories.

This user friendly system enables the characterization of neutron fields from thermal energies to 15 MeV, providing an important quality assurance tool for radiation protection.

The NNS consists of a set of 7 moderator shells, which are cylindrical in shape. Different thicknesses of moderators are created by inserting one cylinder into another. It also consists of a cylindrical ³He proportional counter and optional electronic unit.

The complete system can be carried by a single user. It is simple to operate and it provides accurate information about the local neutron field.

What makes the NNS system unique?

NNS offers an efficient, lightweight, and readily available alternative in neutron spectroscopy

- convenient single unit package
- cylinders can easily be positioned upright on a flat stand
- quick configuration for measurements in demanding environments

In addition to the compact, lightweight design, each NNS configuration exhibits angular isotropic response to neutrons. All dimensions, outer diameter and length of the cylindrical moderator, have been carefully designed to obtain the best angular independence.

Professional Consulting

DETEC invites you to enquire about NNS and radiation related products and services which we offer worldwide



Complete assembled unit*

The portable NNS is operating under the same principle as a "Bonner Sphere Spectrometer" but in a more convenient package

+ Patents pending

* Portable electronic unit is not shown.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information contact Detec directly.

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