

DORIS H*(10) Dosimeter



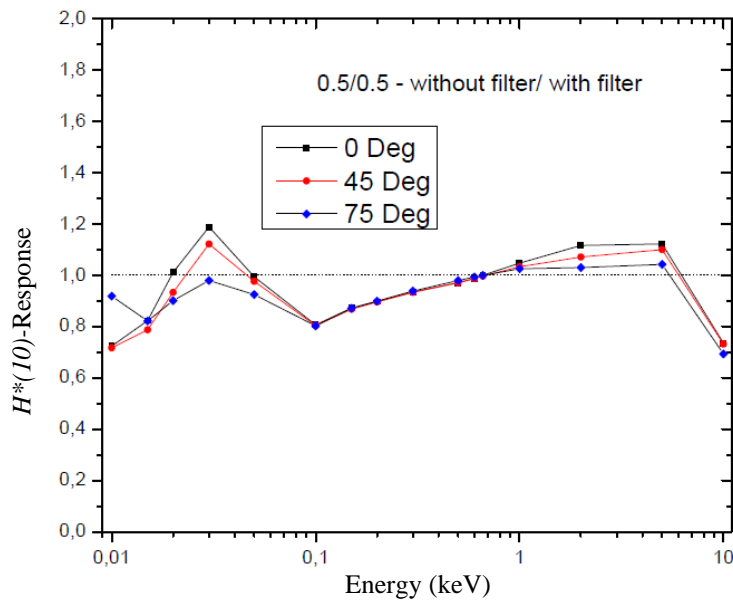
DORIS = DOsimeter**R** for **I**ndoor and outdoor **S**urveys

Concept

The solution worked out at the GSI Helmholtz Centre for Heavy Ion Research GmbH is based on standard RADOS TLD cards with two or four detectors placed inside a scattering body made of polyethylene.

Placed inside the dosimeter, two out of four crystals of the TLD card are shielded by a thin aluminium filter. The combination of the dose measurements of the two detector pairs leads to a response function which very closely resembles the H*(10) measure. The two Al-filters make possible dosimetry in a very broad energy (10 keV to 10 MeV) and angular range. The response to low energies can be adjusted by different weighing factors for the aluminium shielded and unshielded detectors.

These characteristics represent a significant improvement compared to commercially available solutions. Standard solutions follow the H*(10) function only in a much smaller energy range from about 100 keV to 1 MeV. As a result of its special design, the dosimeter can be used under almost all weather and environmental conditions.



Response for three photon incidence angles from 10 keV to 10 MeV, weighing: 50% aluminium shielded detector, 50% unshielded detector

Accessories



TLD card type RADOS with 0,5mm Al-filter



TLD Reader RE-2000

Benefits

- More accurate dose measurement in a very broad energy and angular range
- Suitable for standard TLD cards
- Compact and cost effective scattering-body design
- Simple evaluation method
- Easy handling
- Perfect for outdoor use

Practical application

- Accelerator facilities
- Nuclear medicine facilities
- X-ray radiation monitoring
- Gamma radiation monitoring
- Fluoroscopic systems

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